

CV

SEARCH REQUEST FORM

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Requester's Full Name: Phylesha Doherty Examiner #: 76588 Date: 9/23/04
 Art Unit: 26043 Phone Number 306-5415 Serial Number: 10/605264
 Mail Box and Bldg/Room Location: CPK2 SB4 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Multi-Function Actuator
 Inventors (please provide full names): Yeon Ho (first name) Son (last name)

Earliest Priority Filing Date: Korean 8/22/01

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Filter: notch filter, band reject filter, band stop filter,
 high pass filter "HPF"

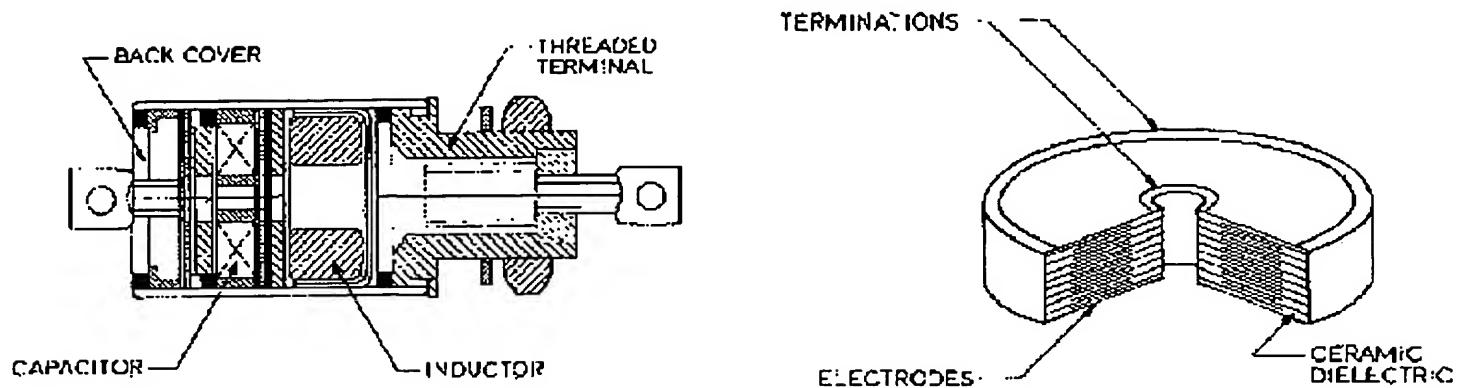
Configuration (see claims 6-7, 9-15, 18-19): Parallel, Series
 Pi, tee connection for resistor (R), capacitor (C),
 inductor (I) in multiple combinations

actuator, transducer, speaker, loudspeaker, audio,
 sound

BEST AVAILABLE COPY

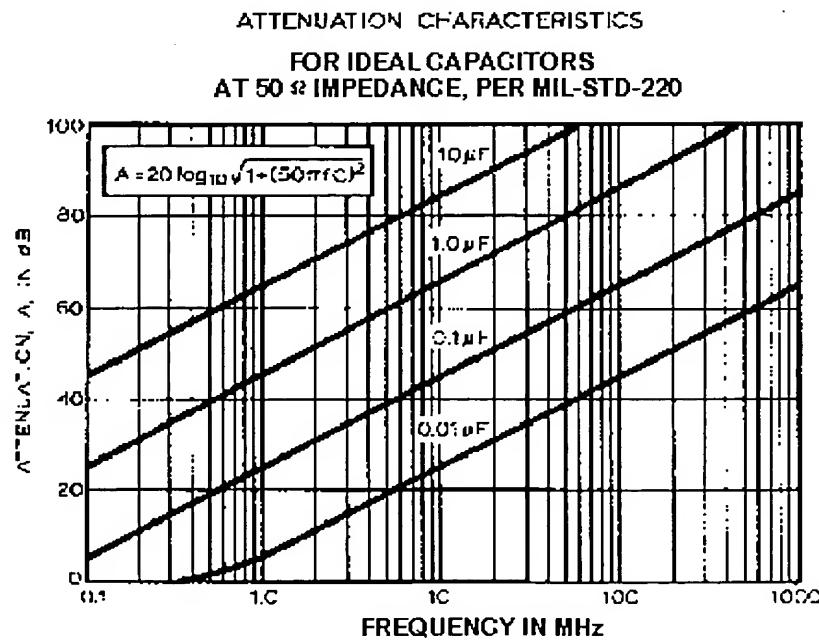
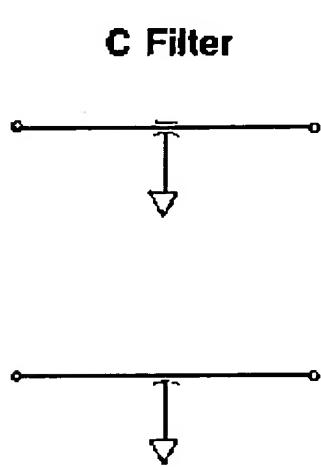
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Clerical Prep Time:		Patent Family	WWW/Internet
Online Time:	<u>12</u>	Other	Other (specify)

TUBULAR FILTERS



FEEDTHROUGH CAPACITOR

A single element, a capacitor from line to ground, with a through wire connecting the input to output. It has attenuation characteristics that increase at 20dB per decade from its cutoff frequency to at least that frequency where it exhibits a minimum attenuation of 60dB. It maintains this attenuation at higher frequencies. A feedthrough capacitor filter is usually the best choice for filtering lines that exhibit very high impedance. Its schematic symbol and its attenuation characteristics are shown below. A feedthrough capacitor is called a C filter.



L-CIRCUIT

L Circuit -- Two elements: a feedthrough capacitor from line to ground, and an inductor connected in series with it between the input and output terminals. The capacitive element can be placed on either the line or load side of the filter, making it either a capacitive or inductive input. Its attenuation increases at 40dB per decade from its cutoff frequency to at least that frequency where it exhibits a minimum attenuation of 70 dB. It maintains this level at higher frequencies. L-Circuit filters are usually the best choices when the line and load impedances exhibit large differences in

impedance. The inductive element is best placed so that it faces the lower impedance. Schematic symbols and typical attenuation characteristics are shown below. They are commonly referred to as L filters.

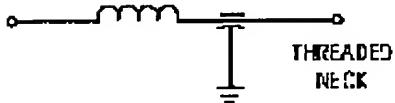
L1 indicates that the inductive element is on the end with the threaded mounting neck.

L2 indicates that the capacitive element is on the end with the threaded mounting neck.

L-Circuit Filters

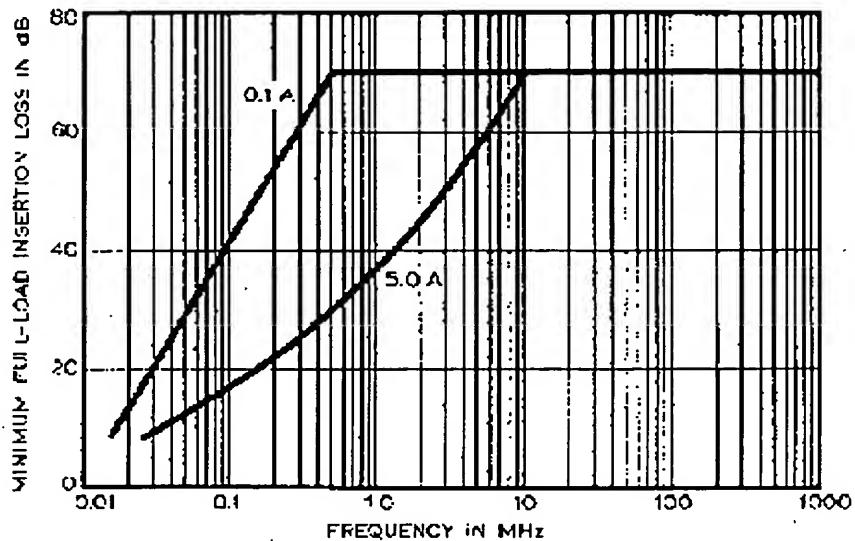


L1



L2

TYPICAL ATTENUATION CHARACTERISTICS



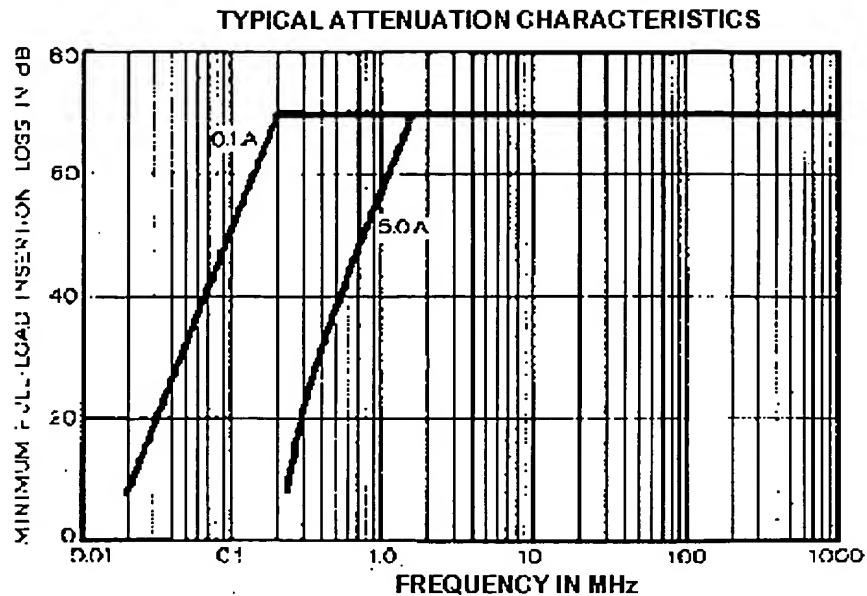
Pi-CIRCUIT

Pi Circuit -- A three section filter consisting of two feedthrough capacitors to ground with a series inductor between them. The Pi filter is usually symmetrical, but circumstances sometimes warrant use of asymmetrical Pi circuits.

A Pi filter has attenuation characteristics that increase at 60dB per decade from its cutoff frequency to at least that frequency where it exhibits a minimum attenuation of 80 dB. It maintains this level at higher frequencies.

A Pi filter is usually the best choice when high levels of attenuation are required and where input and output impedances are similar values. It should *not* be used with switching circuits.

Pi-Circuit Filter



T-CIRCUIT

T Circuit -- A three-section filter consisting of two series-connected inductors between the input and output

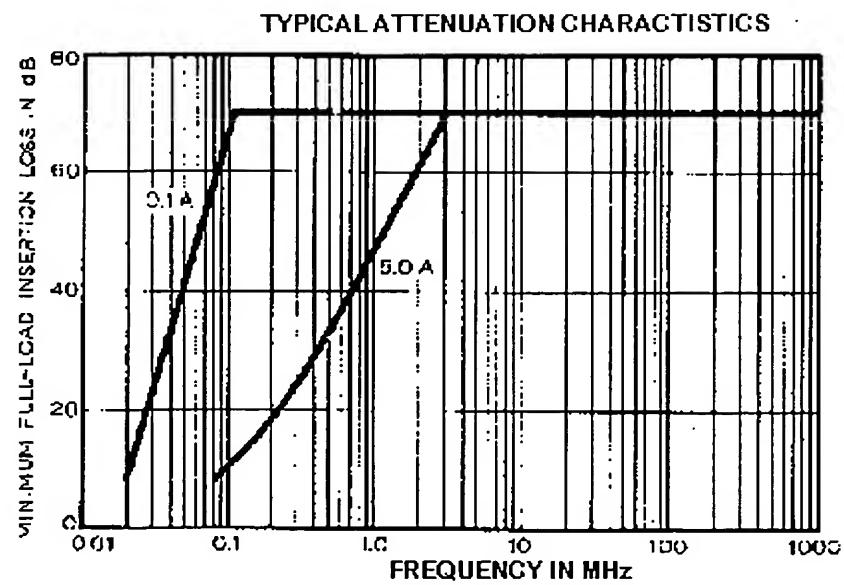
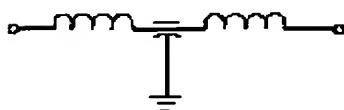
terminals, with a feedthrough capacitor between them from line to ground. The T filter is usually symmetrical (identical inductive elements), but circumstances sometimes warrant use of asymmetrical circuits.

A T filter has attenuation characteristics that increase at 60 dB from its cutoff frequency to at least that frequency where it exhibits a minimum attenuation of 70dB. It maintains this level at higher frequencies.

A T circuit filter is usually the best choice where both input and output impedances are low. The schematic

symbol and typical attenuation characteristics are shown below.

T-Circuit Filter



LL-CIRCUIT

LL Circuit -- Four section filter consisting of two feedthrough capacitors connected between line and

ground with two interspersed inductors connected in series with them between the input and output terminals.

The LL filter is usually made with identical capacitor and inductor elements.

LL1 filters have an inductive element closest to the end with the threaded mounting neck.

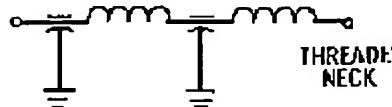
LL2 filters have a capacitive element adjacent to the end with the threaded mounting neck.

An LL has attenuation characteristics that increase at 80 dB per decade from its cutoff frequency to that

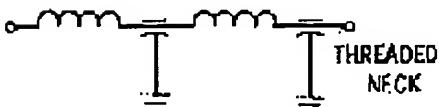
frequency where its attenuation is at least 90 dB. It maintains this level at higher frequencies.

LL circuit filters are used where extremely high attenuation is required and where input and output impedances vary significantly.

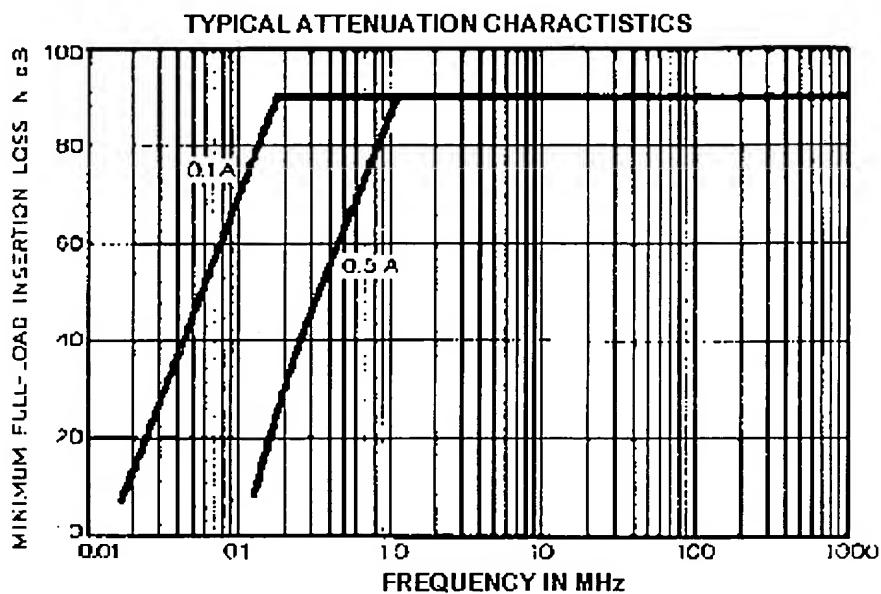
LL-Circuit Filters



LL1



LL2



APPLICATION NOTES AND INSTALLATION GUIDELINES

When installing an EMI filter for any purpose, observe these basic rules:

- The filter's metal case must make direct, low resistance contact with the metal chassis, cabinet, or groundplane.
- Ground connections should be physically short and should exhibit the lowest possible rf impedance. Never use wires for rf grounds.
- The filter's input and output leads should be physically separated to provide the greatest amount of electrical isolation possible.
- Mount the filter as close as possible to the point power lines of egress from the device being filtered. At any point of penetration through the device's shield, make sure the shield's continuity is maintained. In every instance, the preferred installation technique is "bulkhead" mount.
- The most economical filter selection will always be that one with the fewest internal elements.
- Feedthrough capacitor filters are usually the best choice for use with very high impedance lines.
- L-Circuit filters, or LL filters, are usually the best choice when the difference

between line and load impedances is large, The inductive element is best placed so that it faces the lower impedance.

- Pi-Circuit filters are usually the best choice when high levels of attenuation are required and input and output impedances are similar. A Pi-filter should *not* be used with switching circuits.
- T-Circuit filters are usually the best choice when both the input and output impedances are low.
- LL-Circuit filters should only be used when extremely high attenuation is required and when input and output impedances vary significantly.

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1 A multi-resonant type inductor having notch filtering capability

Midorikawa, Y.; Hayano, S.; Saito, Y.;
Magnetics, IEEE Transactions on , Volume: 32 , Issue: 5 , Sept. 1996
Pages:4998 - 5000

[\[Abstract\]](#) [\[PDF Full-Text \(240KB\)\]](#) IEEE JNL

2 Active damping in HDD actuator

Fu-Ying Huang; Semba, T.; Imaino, W.; Lee, F.;
Magnetics, IEEE Transactions on , Volume: 37 , Issue: 2 , March 2001
Pages:847 - 849

[\[Abstract\]](#) [\[PDF Full-Text \(100KB\)\]](#) IEEE JNL

3 Identification and compensation of a non-contact servowriter positioning system

Weerasooriya, S.; Yu Wong Huang;
Magnetics, IEEE Transactions on , Volume: 32 , Issue: 5 , Sept. 1996
Pages:4004 - 4006

[\[Abstract\]](#) [\[PDF Full-Text \(252KB\)\]](#) IEEE JNL

4 Integrated servo/mechanical design of HDD actuators and bandwidth estimation

Semba, T.; Fu-Ying Huang; White, M.T.;
Magnetics, IEEE Transactions on , Volume: 39 , Issue: 5 , Sept. 2003
Pages:2588 - 2590

[\[Abstract\]](#) [\[PDF Full-Text \(277KB\)\]](#) IEEE JNL

5 Magnetic levitation of a flexible steel plate with a vibration suppressing magnet

Hayashiya, H.; Araki, N.; Paddison, J.E.; Ohsaki, H.; Masada, E.;
Magnetics, IEEE Transactions on , Volume: 32 , Issue: 5 , Sept. 1996
Pages:5052 - 5054

[\[Abstract\]](#) [\[PDF Full-Text \(424KB\)\]](#) IEEE JNL

6 Midfrequency disturbance suppression via micro-actuator in dual-stage HDDs

Daowei Wu; Guoxiao Guo; Chong, T.C.;
Magnetics, IEEE Transactions on , Volume: 38 , Issue: 5 , Sept. 2002
Pages:2189 - 2191

[\[Abstract\]](#) [\[PDF Full-Text \(198KB\)\]](#) [IEEE JNL](#)

7 Reducing hysteresis in magnetostrictive-piezoelectric magnetic sensors
Prieto, J.L.; Aroca, C.; Lopez, E.; Sanchez, M.C.; Sanchez, P.;
Magnetics, IEEE Transactions on , Volume: 34 , Issue: 6 , Nov. 1998
Pages:3913 - 3915

[\[Abstract\]](#) [\[PDF Full-Text \(72KB\)\]](#) [IEEE JNL](#)

8 Seek control and settling control taming actuator resonance of hard disk drives
Takaishi, K.; Saito, S.;
Magnetics, IEEE Transactions on , Volume: 39 , Issue: 2 , March 2003
Pages:838 - 843

[\[Abstract\]](#) [\[PDF Full-Text \(405KB\)\]](#) [IEEE JNL](#)

9 Wideband electronically tunable microwave bandstop filters using iron film-gallium arsenide waveguide structure
Tsai, C.S.; Jun Su; Lee, C.C.;
Magnetics, IEEE Transactions on , Volume: 35 , Issue: 5 , Sept. 1999
Pages:3178 - 3180

[\[Abstract\]](#) [\[PDF Full-Text \(200KB\)\]](#) [IEEE JNL](#)

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L1: Entry 1 of 1

File: TDBD

Sep 1, 1986

TDB-ACC-NO: NN86091790

DISCLOSURE TITLE: Use of Periodically Layered Composites As a Mechanical Notch Filter to Isolate Selected High Frequency Vibrations in Data Recording Disk Files

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S6	116	INDUCTOR?? (5N) PARALLEL
S7	101	CAPACITOR? (5N) SERIAL?
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S10	20499	(L OR TEE OR T OR PI) (3N)CIRCUIT?
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S14	0	S11(S)S10
S15	0	S11(S)S9
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10988117 Supplier Number: 112862430 (USE FORMAT 7 FOR FULLTEXT)
Audio-technica to highlight four products at NAMM. (Product News)

Music Trades, v152, n1, p276(4)

Feb, 2004

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 896

... rapidly won favor in the most demanding live performance settings.
Representing a groundbreaking achievement in **transducer**
technology, the AE2500 features the company's unique dual condenser/dynamic
element design. This revolutionary...

...microphones. Ideal for bass drum applications, the microphone will
survive extreme SPLs while providing uncompromising **audio** quality. The
AE2500's dynamic element cleanly captures the attack transients of the
beater, while...

...and it includes the new AT8471 isolation clamp. The microphone also has
an integral 80Hz **high - pass filter** switch and 10dB pad.

The AE2500 has already built a solid reputation on the road...

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05343809 SUPPLIER NUMBER: 54321537 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Quack Attackers. (acoustic guitar pickup) (Brief Article) (Evaluation)

Gore, Joe

Guitar Player, 33, 5, 111(1)

May, 1999

DOCUMENT TYPE: Brief Article Evaluation ISSN: 0017-5463

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 753 LINE COUNT: 00061

... producing feedback. (EMF says the system can also accommodate
microphones from other manufacturers.)

NF1

The sound of the single- **transducer** NF1 system was a bit
anticlimactic after experiencing the natural openness of the CR2. Still...

...acoustic amps or mixing boards. The system's active "edge" and "bottom"
controls (low- and **high - pass filters** in parallel with the direct
signal) add brilliance and thump, but the lack of a...

17/3,K/3 (Item 2 from file: 47)
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03635417 SUPPLIER NUMBER: 11076750 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Human ultrasonic speech perception.

Lenhardt, Martin L.; Skellett, Ruth; Wang, Peter; Clarke, Alex M.

Science, v253, n5015, p82(4)

July 5, 1991

CODEN: SCIEAS ISSN: 0036-8075 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 3148 LINE COUNT: 00251

... model N9 matching network to the model F9 piezoelectric vibration generator on a model Z9 **transducer** base. The accelerometer output of the **transducer** was used as input to the Quest Electronics measurement instrument, and signal levels were determined...

...monitored. A DSB signal is generated by the multiplication of two input signals, one modulating (**audio**) signal and one carrier (high-frequency) signal, using a balanced modulator. An upper side band signal was generated by phasing method such that both the **audio** and the carrier were shifted by 90[degrees], fed into each of two balanced modulators...

17/3,K/4 (Item 1 from file: 148)
DIALOG(R) File 148:Gale Group Trade & Industry DB
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10158717 SUPPLIER NUMBER: 20055277 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Simplicity pays off in circuit design.
Ioffe, Mikhail
EDN, v42, n15, p119(4)
July 17, 1997
ISSN: 0012-7515 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1884 LINE COUNT: 00150

... a biamp "combo" amplifier used in professional music applications. Combo amplifiers combine the amplifier and **loudspeaker** in one enclosure. These amplifiers are virtually ubiquitous, but the one shown specifically targets acoustic...

...is just low-frequency (bass) boost. The second stage is a 60-Hz, second-order **highpass filter** that protects the woofer from large infrasonic-level fluctuations, which are common with pressure-type piezoelectric **transducers** used in acoustic amplification.

The third stage is a 2.4-kHz lowpass filter, and...

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05091637 SUPPLIER NUMBER: 74615412 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Godin Multiac Nylon and Grand Concert Duet guitars: Amplified options
Zaworski, Dave
Down Beat (GDOB), v68 n7, p83, p.1
Jul 2001
ISSN: 0012-5768 JOURNAL CODE: GDOB
DOCUMENT TYPE: Product Review-Comparative
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 571

TEXT:

... free amplified sound.
Both Godin Multiac Duets use an LR Baggs System that blends the **sound** from an internal condenser microphone with an under-saddle ribbon **transducer** via the battery-powered onboard preamp. The battery compartment is smartly placed on the back...

...the 1/4-inch jack you can use a stereo guitar cable to split the **sound** of the Multiac Duet's mic and **transducer** sending it to two separate amps for a widely spaced lush stereo **sound**. With the XLR output, you can take the **sound** directly into a PA console or recording console with XLR inputs for superb direct **sound** while eliminating the hassles of microphone placement. Five slider controls for the volume, blend and EQ-as well as three knobs that control the **notch filter**, **notch** tune and presence and two LEDS that serve as on/off and phantom power indicators...

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04219890 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Quack attackers: EMF acoustics B-Band pickups
Gore, Joe
Guitar Player (IGUP), v33 n5, p111-114, p.3
May 1999
ISSN: 0017-5463 JOURNAL CODE: IGUP
DOCUMENT TYPE: Product Review-Unfavorable
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 685

TEXT:

... producing feedback (EMF says the system can also accommodate microphones from other manufacturers.)

NF1

The **sound** of the single- **transducer** NF1 system was a bit anticlimactic after experiencing the natural openness of the CR2. Still...

...acoustic amps or mixing boards, The system's active "edge" and "bottom controls (low- and **high - pass filters** in parallel with the direct signal) add brilliance and thump, but the lack of a...

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05668946 Supplier Number: 110014050 (USE FORMAT 7 FOR FULLTEXT)
Selecting Speakers.
Radio, v9, n11, pNA
Nov 1, 2003
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1575

... sample of available speakers
Mackie's HR824 and HR624 are two-way, bi-amplified, active **speaker** systems that incorporate an elliptical wave-guide for improved dispersion and a composite honeycomb, rear-firing passive **transducer** that provides bass extension to 49Hz (-3dB). Components include a 6.7" (HR624) or 8.75" (HR824) extended LF **transducer** with a cast magnesium frame and mineral-damped polypropylene cone. The 1" (24.5mm) aluminum...

...include 1/4" XLR balanced and RCA unbalanced. Rear panel controls consist of an 80Hz **high - pass filter** and -2/0/+2dB high frequency shelving filter. www.mackie.com

The Interactive Digital Programming...

17/3,K/8 (Item 2 from file: 636)
DIALOG(R) File 636:Gale Group Newsletter DB(TM)
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05641444 Supplier Number: 107232732 (USE FORMAT 7 FOR FULLTEXT)

Product Source.

Radio, v9, n8, pNA

August 1, 2003

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 20647

... coupled with pinpoint low-level accuracy of the mid range. Additionally, its symmetrical left-right **sound** field ...shape required for center channel applications in 5.1 and 7.1 surround systems. The **speaker** uses a high-frequency waveguide-loaded 1" dome tweeter for crisp, evenly dispersed highs, along...

...passive transducer, to provide bass extension to 40Hz. This product features a bi-amplified, active **speaker** system that incorporates dual FR Series amplifiers to provide 100W to the woofer ...1/4" XLR balanced and RCA unbalanced. Rear panel controls consist of sensitivity, an 80Hz high - pass **filter** , -2/0/+2dB high frequency shelving filter, acoustic space control for optimizing bass output in...
?

File 348:EUROPEAN PATENTS 1978-2004/Feb W03

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File 349:PCT FULLTEXT 1979-2002/UB=20040219,UT=20040212

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Set	Items	Description
S1	122201	ACTUATOR? OR TRANSDUCER?
S2	126125	LOUDSPEAKER?? OR LOUD()SPEAKER?? OR AUDIO OR SOUND OR SPEAKER??
S3	2782	(NOTCH OR BANDREJECT OR BAND-REJECT OR BANDSTOP OR BAND-ST- OP OR BAND()REJECT? OR BAND()STOP) (3N) FILTER?
S4	8210	(HIGHPASS OR HIGH-PASS OR HIGH()PASS) (3N) FILTER? OR HPF
S5	0	REVERSE() (L OR TEE OR T OR PI) ()TYPE()CIRCUIT?
S6	1883	INDUCTOR?? (5N) PARALLEL
S7	1036	CAPACITOR? (5N) SERIAL?
S8	8631	RESISTOR? (5N) PARALLEL
S9	3487	(VOICE OR AUDIO OR SOUND) ()COIL??
S10	47477	(L OR TEE OR T OR PI) (3N) CIRCUIT?
S11	29630	IC=(H04R OR G08B? OR H02K?)
S12	69	S1(S)S2(S) (S3 OR S4)
S13	0	S12 AND S6 AND S7 AND S8
S14	9	S12 AND S6:S8
S15	1	S14 AND S10
S16	8	S14 NOT S15
S17	8	IDPAT (sorted in duplicate/non-duplicate order)
S18	8	IDPAT (primary/non-duplicate records only)
S19	33	S12 AND S11
S20	32	S19 NOT (S15 OR S14)
S21	0	S20(S)INDUCTOR? (10N)CAPACITOR? (10N)RESISTOR?
S22	3	S20(S)INDUCTOR?
S23	7	S20(S)CAPACITOR?
S24	1	S20(S)RESISTOR?
S25	7	(S22 OR S23 OR S24)
S26	7	S25 NOT (S15 OR S14)
S27	7	IDPAT (sorted in duplicate/non-duplicate order)
S28	7	IDPAT (primary/non-duplicate records only)

15/3, K/1 (Item 1 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00789041 **Image available**

LOUDSPEAKER FREQUENCY DISTRIBUTION AND ADJUSTING CIRCUIT
CIRCUIT DE REGLAGE ET DE DISTRIBUTION DE FREQUENCE POUR UN HAUT-PARLEUR

Patent Applicant/Inventor:

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Legal Representative:

ONEY Richard E (agent), Fennemore Craig, P.C., 3003 North Central Avenue, Suite 2600, Phoenix, AZ 85012-2913, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200122576 A1 20010329 (WO 0122576)

Application: WO 2000US26089 20000921 (PCT/WO US0026089)

Priority Application: US 99154942 19990921

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 4714

Fulltext Availability:

Detailed Description

Claims

French Abstract

L'invention concerne un **circuit de reglage et de distribution d'audiofréquences**, comprenant un réseau (30) de résistances variables présentant...

Detailed Description

... include the series combination of resistive legs R1V and R2V coupled in a shunt or **parallel** configuration with the **inductor** L1 for partially bypassing a portion of the full frequency electrical audio signal energy around...

Claim

1. In an **audio** system, a frequency distribution and adjusting circuit for partitioning by frequency an electrical **audio** signal as provided by at least one amplifier into a plurality of electrical **audio** frequency bands comprising at least one high frequency band and one low frequency band for...

...output electrically coupled to an input of the low frequency electro-acoustic transducer;

(c) a **high - pass filter** being electrically coupled to at an input of the at least one high

frequency electro-acoustic **transducer** ; and

(d) a variable resistor network including:

a first variable resistance and a second variable...

...variable

resistance for adjusting the total resistance between the resistive network terminals;

(e) the variable **resistor** network terminals being coupled in **parallel**

with the low-pass
filter; and

16

(f) the wiper contact being electrically coupled to a high - pass
filter .

?

18/3,K/1 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01110998

"Parametric audio system"
Parametrisches Audiosystem
Système audio paramétrique

PATENT ASSIGNEE:

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INVENTOR:

Pompei, Frank Joseph, 20 Ames Street, E15-401, Cambridge, MA 02139, (US)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 973152 A2 000119 (Basic)
EP 973152 A3 010103
EP 973152 A9 010328

APPLICATION (CC, No, Date): EP 99305632 990715;

PRIORITY (CC, No, Date): US 116271 980716; US 300022 990427

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G10K-015/02; H04B-014/00; G10K-011/26

ABSTRACT WORD COUNT: 114

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200003	1525
SPEC A	(English)	200003	6661
Total word count - document A			8186
Total word count - document B			0
Total word count - documents A + B			8186

...SPECIFICATION large to provide the desired resonance, one can reduce the effective inductances by connecting an **inductor parallel** with the secondary winding. However, by tailoring ...to compensate more precisely for absorption-related decay.

It should be noted that the ultrasonic **transducers** described earlier can be used for the reception of audible or ultrasonic signals in addition to their transmission. As shown in Fig. 11, a **transducer** module or array 160 is powered, as described above, from one or more driver circuits 27. A **high - pass filter** 162, connected between each driver circuit 27 and the array 160 prevents dissipation of received **audio** energy in the driver circuits. A low-pass filter 164 passes **audio** energy from the array 160 to an **audio -responsive unit** 166 such as an **amplifier** and **loudspeaker**.

Assuming linear operation of the transducers in the array, the audio signals will suffer insubstantial...

18/3,K/2 (Item 2 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00576572

Combined force-, strain and sound emission transducer
Kombinierter Kraft-, Dehnungs- und Schallemissionsaufnehmer
Capteur combine de force, de contrainte et d'émission de son

PATENT ASSIGNEE:

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(applicant designated states: AT;DE;GB)

INVENTOR:

Cavalloni, Claudio, Dr., Euelstrasse 57, CH-8408 Winterthur, (CH)

PATENT (CC, No, Kind, Date): EP 572349 A1 931201 (Basic)
EP 572349 B1 951227

APPLICATION (CC, No, Date): EP 93810298 930423;

PRIORITY (CC, No, Date): CH 921558 920515

DESIGNATED STATES: AT; DE; GB

INTERNATIONAL PATENT CLASS: G01H-001/00; G10K-011/02;

TRANSLATED ABSTRACT WORD COUNT: 231

ABSTRACT WORD COUNT: 169

LANGUAGE (Publication, Procedural, Application): German; German; German
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(German)	EPABF1	203
CLAIMS B	(English)	EPAB96	226
CLAIMS B	(German)	EPAB96	192
CLAIMS B	(French)	EPAB96	239
SPEC A	(German)	EPABF1	843
SPEC B	(German)	EPAB96	866
Total word count - document A			1046
Total word count - document B			1523
Total word count - documents A + B			2569

...ABSTRACT compound (10), which partially surrounds the measuring element (9) and can also contain an electrical **resistor** (11) which is connected in **parallel** with the measuring element (9) and forms a **high - pass filter** with the capacitor of the sensor (1).

The coupling diaphragm (7) is situated in a...

18/3,K/3 (Item 3 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00409825

ACTIVE NOISE REDUCTION SYSTEM

AKTIVES LARMDAMPFUNGSSYSTEM

SYSTEME ACTIF DE REDUCTION DE BRUIT

PATENT ASSIGNEE:

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AT;BE;CH;DE;FR;GB;IT;LI;LU;NL;SE)

INVENTOR:

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CARUSO, F., Gerald, 501 Maple Avenue, Palmyra, NJ 08065, (US)

LEGAL REPRESENTATIVE:

Brunner, Michael John et al (28871), GILL JENNINGS & EVERY Broadgate House 7 Eldon Street, London EC2M 7LH, (GB)

PATENT (CC, No, Kind, Date): EP 423172 A1 910424 (Basic)

EP 423172 A1 910911

EP 423172 B1 970122

WO 8912432 891228

APPLICATION (CC, No, Date): EP 89907611 890622; WO 89US2715 890622
PRIORITY (CC, No, Date): US 210791 880624
DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE
INTERNATIONAL PATENT CLASS: A61F-011/14; G10K-011/16;

NOTE:

No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB97	665
CLAIMS B	(German)	EPAB97	693
CLAIMS B	(French)	EPAB97	795
SPEC B	(English)	EPAB97	5753
Total word count - document A			0
Total word count - document B			7906
Total word count - documents A + B			7906

...SPECIFICATION points D and D', a bridge consisting of four arms:

(1) R11,
(2) MT1 in **parallel** with photoconductive **resistor** R12,
(3) R13 in **parallel** with photoconductive **resistor** R14, and
(4) MT2 in **parallel** with **resistor** R15. Transducer MT2, summing
microphone MK, and cable W are equivalent respectively, to the bilateral
...microphone 31
C5 compliance of air volume in occluded ear canal 36
C11 (with R16) **high - pass filter**
CR2, CR3 light emitting diodes
D-D' driving terminals of the bridge
Ea)) actuating signal...

...F force generated by coil 22

L2 mass of diaphragm 23
L3 impedance of coaxial **sound** passage 30
L5 impedance of opening 33
MK summing microphone
MT1 reference **transducer** in FIG. 4
MT2 active **transducer** in FIG. 4
p2)) **sound** pressure in chamber 29
pe)) **sound** pressure acting on eardrum
pm)) **sound** pressure sensed by summing microphone 31
Pn)) ambient noise
R2 resistance of diaphragm 23
R3 acoustical resistance of coaxial **sound** passage 30
R5 resistance of opening 33
R11, R13, R15 fixed resistor
R12 photoconductive variable resistor
R14 photoconductive variable resistor
R16-C11 **high pass filter**
Ta)) electro-acoustical transfer function
T1)), T2)), T3)) transfer functions of ...velocity
11 pre-emphasis filter
12 signal combiner
13 amplifier
14 cascade compensation circuit
15 **speaker**
16 acoustical transmission path
17 passive attenuation path
18 summing microphone
19 preamplifier
20 driver

21 electrodynamic bilateral **transducer**
22 coil
23 diaphragm
24 acoustical resistor
25 rivet
26 peripheral holes
27 felt washer
28 reference chamber
29 forward chamber
30 coaxial **sound** passage
31 summing microphone
32 microphone orifice
33 axial opening
34 housing
35 earplug adapter...

18/3, K/4 (Item 4 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

01081433 **Image available**

NOISE CANCELLATION SYSTEM AND HEADPHONE THEREFOR
SYSTEME SUPPRESSEUR DE BRUIT ET CASQUE PREVU A CET EFFET

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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FULLER Graeme Colin, Unit 1, 82 Banks Road, Mt Wellington, 1001 AUCKLAND,
NZ, NZ (Residence), NZ (Nationality), (Designated only for: US)

Legal Representative:

CARTWRIGHT Peter Harry (agent), Pipers, 29 Waterloo Road, 6009 Lower Hutt
, NZ,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200402383 A1 20040108 (WO 0402383)
Application: WO 2003NZ134 20030626 (PCT/WO NZ2003000134)
Priority Application: NZ 519863 20020628

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL
PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA
ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 1978

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... comprises a passive electronic filter.

Preferably the filter comprises a resistor/capacitor network.

Preferably the filter is a high pass filter in parallel with the sound transducer.

Preferably the sound transducer comprises an electret condenser microphone.

In yet another aspect the invention...

...of which is in series with a bias resistor Rbias. The voltage source and bias resistor are in parallel with the passive filter comprising resistor I0 and capacitor 12. The network shown in Figure 2 provides a transfer function...

Claim

... 5 A noise cancellation system filter as claimed in claim 4 characterised in that the filter is a high pass filter in parallel with the sound transducer.

6 A noise cancellation system as claimed in claim 1 characterised in that the sound...

18/3,K/5 (Item 5 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

01037501 **Image available**

TOUCH PAD

PAVE TACTILE

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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for: US)

Legal Representative:

ATKINSON Ralph (agent), Atkinson Burrington, 25-29 President Buildings,
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200367511 A2-A3 20030814 (WO 0367511)

Application: WO 2003GB515 20030205 (PCT/WO GB0300515)

Priority Application: GB 20022772 20020206; GB 200225107 20021029; GB
200225573 20021102; GB 200226033 20021107; GB 200226037 20021107

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI
SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 12281

Fulltext Availability:
Detailed Description

Detailed Description

... of low frequencies is achieved by a single pole high pass filter formed by a **resistor** 803 in **parallel** with the transducers 201 and 203. The transducers have an intrinsic capacitance, which, in conjunction...between transducers and the high pass filter implemented by the addition of a **resistor** across **transducer** outputs as shown in Figure 8. The signals from the **transducers** are supplied to the output cable 103, which is terminated in a 3.5mm stereo...

...plug 805. The jack plug 805 connects directly to the stereo microphone input of the **sound** card 406.

Characteristics of the acoustic signals are explained with reference

18/3,K/6 (Item 6 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00879293 **Image available**
BENDING WAVE LOUDSPEAKER BENDING WAVE LOUDSPEAKER
HAUT-PARLEUR A ONDES DE FLEXION
Patent Applicant/Assignee:
NEW TRANSDUCERS LIMITED, 37 Ixworth Place, London SW3 3QH, GB, GB
(Residence), GB (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
BURTON Paul, 5 St. Mary's Court, St. Mary's Street, Huntingdon,
Cambridgeshire PE29 3EP, GB, GB (Residence), GB (Nationality),
(Designated only for: US)

Legal Representative:
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GB,

Patent and Priority Information (Country, Number, Date):
Patent: WO 200213574 A2-A3 20020214 (WO 0213574)
Application: WO 2001GB3310 20010724 (PCT/WO GB0103310)
Priority Application: GB 200018997 20000803
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD
SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 2807

Fulltext Availability:
Detailed Description
Claims

Detailed Description

... between a flat axial and a flat power response. An

LCR notch filter is a **parallel** circuit of a capacitor and **inductor**. Normally it is damped by a **parallel resistor**.

5 The whole filter of 3 parallel components is then wired in series with the...The high pass filter includes a capacitor (21) in series with the signal and an **inductor** (19) in **parallel** with the signal. A further crossover response is shown in Fig.6 which differs from...

Claim

... crossover circuitry comprises a low pass filter connected to the low-frequency transducer and a **high pass filter** connected to the high-frequency **transducer**.

3 A loudspeaker according to claim 2, wherein the high 20 pass filter includes additional...

18/3,K/7 (Item 7 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00182517 **Image available**

MICRO-MACHINED ACCELEROMETER WITH TILT COMPENSATION
ACCELEROMETRE MICRO-USINE A COMPENSATION DE L'INCLINAISON

Patent Applicant/Assignee:

TRITON TECHNOLOGIES INC,

Inventor(s):

HENRION W S,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9015997 A1 19901227

Application: WO 90US3059 19900525 (PCT/WO US9003059)

Priority Application: US 89256 19890622

Designated States: BE CA CH DE FR GB IT JP KR LU NL

Publication Language: English

Fulltext Word Count: 13292

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... loop, if a stability analysis of the loop so requires, of the form of a **parallel resistor** R 1 and capacitor C followed by a resistor R 2 to ground, The output...

Claim

... motion of said support structure at frequencies passed by said low pass filter.
2e The **transducer** of claim 1 wherein said mass is supported by springs from said support structure, and...

...said surface of said mass and which are secured to said support structure.

3 The **transducer** of claim 2 wherein said displacement signal is generated on said sense

conducting area of...

...applying
a constant charge to said second force conducting
area of said mass.

4e The **transducer** of claim 2 wherein
said displacement signal is generated on
said source conducting area of...ace
of said mass.

5 A system for detecting the direction of
acceleration forces of **sound** waves in a body of
water comprising,
a submerged platform supported via a
cable from...

...with respect to a support
structure,
means responsive to said displacement
signal and including a **high pass filter** for
generating a detection signal representative
of acceleration of said support structure at
frequencies passed by said **high pass filter**,
and
means responsive to said displacement
signal and including a low pass filter for
generating...

18/3,K/8 (Item 8 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00108183
SOUND SIGNAL AUTOMATIC DETECTION AND DISPLAY METHOD AND SYSTEM
PROCEDE ET SYSTEME DE DETECTION ET D'AFFICHAGE AUTOMATIQUES DE SIGNAUX
SONORES

Patent Applicant/Assignee:

WRIGHT MALTA CORP,
ELLIS D,
SCHOENBERG S,
ARONSTEIN J,

Inventor(s):

ELLIS D,
SCHOENBERG S,
ARONSTEIN J,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8200379 A1 19820204
Application: WO 80US873 19800715 (PCT/WO US8000873)
Priority Application: WO 80US873 19800715

Designated States: DE GB JP US

Publication Language: English

Fulltext Word Count: 13642

Fulltext Availability:

Detailed Description

English Abstract

A **sound** pitch detection and display system identifies automatically a note being played without requiring assistance from a vocalist or musician. A **sound** signal **transducer** (11) detects an input **sound** wave and supplies it to a filter (13) having bandpass characteristics.

The bandpass characteristics of the filter are provided by a **high pass filter** stage (72) followed by an automatic gain control amplifier (75) that in turn is followed...

...circuit (15, 78) that derives an output representative of the fundamental frequency of the input **sound** wave being analyzed. The output from the detector circuit is supplied to a microcomputer (16...

Detailed Description

... a pair of diodes D1 and D2. The diodes D1 and D2 in conjunction with **parallel** connected **resistor** - R9 and capacitor C7 form a rectifying and smoothing network whose output is connected to...

?

28/3, K/1 (Item 1 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00948640 **Image available**
LOUDSPEAKER AND METHOD OF MAKING SAME
HAUT-PARLEUR ET PROCEDE DE FABRICATION

Patent Applicant/Assignee:

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(Residence), GB (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

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MACFARLANE Ian David, New Transducers Limited, Cygnet House, Kingfisher Way, Hinchinbrooke Business Park, Huntingdon, Cambridgeshire PE29 6FW, GB, GB (Residence), GB (Nationality), (Designated only for: US)

HILLS Keith Douglas, New Transducers Limited, Cygnet House, Kingfisher Way, Hinchinbrooke Business Park, Huntingdon, Cambridgeshire PE29 6FW, GB, GB (Residence), GB (Nationality), (Designated only for: US)

BURTON Paul, New Transducers Limited, Cygnet House, Kingfisher Way, Hinchinbrooke Business Park, Huntingdon, Cambridgeshire PE29 6FW, GB, GB (Residence), GB (Nationality), (Designated only for: US)

HARRIS Neil, New Transducers Limited, Cygnet House, Kingfisher Way, Hinchinbrooke Business Park, Huntingdon, Cambridgeshire PE29 6FW, GB, GB (Residence), GB (Nationality), (Designated only for: US)

Legal Representative:

MAGUIRE BOSS (agent), 5 Crown Street, St. Ives, Cambridgeshire PE27 5EB, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200282856 A2-A3 20021017 (WO 0282856)

Application: WO 2002GB1385 20020404 (PCT/WO GB0201385)

Priority Application: GB 20018504 20010405; GB 200116305 20010703; GB 200127788 20011120

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 8032

Fulltext Availability:

Detailed Description

Detailed Description

... face of the box-form structure whereby omnidirectivity at high frequencies may be improved.

Different **transducer** may be used for different frequency ranges and they may be connected by a crossover, e.g. a first order low pass crossover comprising a series **inductor**. The filter may comprise a first order series **capacitor** having a value selected to resonate with the series **inductor** at a frequency where the output of the **speaker** as a whole is weak, providing a boost over a

controlled frequency band. A passive second order high pass filter may be used to protect the transducer by band limiting

28/3,K/2 (Item 2 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00927975 **Image available**

MICROPHONE UNIT WITH INTERNAL A/D CONVERTER

UNITE MICROPHONE DOTEÉ D'UN CONVERTISSEUR A/N INTERNE

Patent Applicant/Assignee:

TECHTRONIC A S, Algade 43, DK-4000 Roskilde, DK, DK (Residence), DK (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

FURST Claus Erdmann, Naturparken 13, Vindinge, DK-4000 Roskilde, DK, DK (Residence), DK (Nationality), (Designated only for: US)

STENBERG Lars J, Eleonoravej 2E, DK-4000 Roskilde, DK, DK (Residence), DK (Nationality), (Designated only for: US)

MUCHA Igor, Bagarova 30, FIN-84101 Bratislava, FI, FI (Residence), DE (Nationality), (Designated only for: US)

Legal Representative:

PLOUGMANN & VINGTOFT A S (agent), Sankt Annae Plads 11, P.O. Box 3007, DK-1021 Copenhagen K, DK,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200262101 A1 20020808 (WO 0262101)

Application: WO 2002DK76 20020201 (PCT/WO DK0200076)

Priority Application: US 2001266176 20010202; US 2001964893 20010928

Designated States: AE AG AL AM AT (utility model) AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ (utility model) DE (utility model) DK (utility model) DM DZ EC EE (utility model) ES FI (utility model) GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK (utility model) SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 5581

Fulltext Availability:

Detailed Description

Detailed Description

... penetrating the diaphragm, This pressure equalizing opening has dimensions so that frequencies in the analog **audio** signals below a 20' predetermined frequency value are suppressed. Generally speaking, by making the pressure equalizing opening smaller,, the cut-off frequency of the acoustic **high - pass filter** decreases. With a lower cut-off frequency of the acoustic **high - pass filter** the electronic **high - pass filter** can be designed with a smaller **capacitor** without increasing the total noise from the microphone. This design route is of specific importance...

...assembly according to the fourth aspect of the present invention may further comprise a first **high - pass filter** between the first preamplifier and the first sigma-delta modulator,, and a second **high -**

pass filter between the second pre-amplifier and the second sigma-delta modulator. This 20 high - pass filter may at least partly be integrated with the integrated circuit.

The microphone assembly may further...

28/3,K/3 (Item 3 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00828454 **Image available**

ACOUSTICALLY ASYMMETRIC BANDPASS LOUDSPEAKER WITH MULTIPLE ACOUSTIC FILTERS
ENCEINTE ACOUSTIQUE A BANDE PASSANTE A ACOUSTIQUE ASYMETRIQUE MUNIE DE
PLUSIEURS FILTRES ACOUSTIQUES

Patent Applicant/Assignee:

AMERICAN TECHNOLOGY CORPORATION, 13114 Evening Creek Drive South, San
Diego, CA 92128, US, US (Residence), US (Nationality)

Inventor(s):

CROFT James J III, 13633 Quiet Hills Drive, Poway, CA 92064, US,

Legal Representative:

NORTH Vaughn W (et al) (agent), Thorpe, North & Western, LLP, P.O. Box
1219, Sandy, UT 84091-1219, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200162043 A1 20010823 (WO 0162043)

Application: WO 2001US5111 20010216 (PCT/WO US0105111)

Priority Application: US 2000505553.20000217

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG
SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 8642

Fulltext Availability:

Detailed Description

Detailed Description

... 5 parameters such as twice the mass and twice the BL.

FIG. 19 shows the **loudspeaker** of FIG. 5 wherein the electrical input signal is delivered to the at least one electroacoustical **transducer** I 1 through a series connected **capacitor** 66. This **capacitor** can be used to create an additional electrical **high pass filter** pole in addition to the underdamped substantially second order acoustic **high pass** characteristic of many preferred embodiments of the invention. This **series capacitor** can both smooth the peak of an underdamped response, extend the low frequency cutoff of...

28/3,K/4 (Item 4 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00539044 **Image available**

RESONANT PANEL-FORM LOUDSPEAKER

HAUT-PARLEUR SE PRESENTANT SOUS FORME DE PANNEAU RESONNANT

Patent Applicant/Assignee:

NEW TRANSDUCERS LIMITED,

AZIMA Henry,

MORECROFT Denis,

Inventor(s):

AZIMA Henry,

MORECROFT Denis,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200002417 A1 20000113 (WO 0002417)

Application: WO 99GB1974 19990701 (PCT/WO GB9901974)

Priority Application: GB 9814324 19980703; GB 992578 19990206; GB 992581 19990206; GB 992582 19990206; GB 992579 19990206; GB 995038 19990305

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 22222

Fulltext Availability:

Claims

Claim

... It will be appreciated that although the embodiments of Figures 1 to 3 relate to **loudspeakers**, it would equally be possible to produce an acoustic resonator for modifying the acoustic...

...quite a small enclosure volume with respect to the diaphragm size, as compared with piston **speakers**. The mechanisms responsible for the minimal interaction of this boundary with the distributed mode action...

...the application would lend itself to such a solution. Suitable applications include ceiling tile 10 **loudspeakers** and custom in-wall installation. In various other applications there may be a definite advantage...

...the panel. Such applications may also benefit from an overall thinness and lightness of the **loudspeaker**. It is an object of the present invention to bring understanding to this form of deployment and offer analytical solutions.

A substantial volume of work supports conventional 20 piston **loudspeakers** in various modes of operation, especially in predicting their low frequency behaviour when used in an enclosure. It is noteworthy that distributed mode **loudspeakers** are of very recent development and as such there is virtually no prior knowledge of...in Figure 9, is equivalent to a mechanoacoustical closed loop system in which the reacting sound pressure is due to the velocity of the panel itself. This pressure modifies the modal distribution of 25 the bending wave field which in turn has an effect on the

that is needed to equalise the power response in this region.

CLAIMS

1...

28/3,K/5 (Item 5 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00516975 **Image available**

IN-HOME THEATER SURROUND SOUND SPEAKER SYSTEM

SYSTEME DE REPRODUCTION SONORE PERIPHERIQUE POUR THEATRE DOMESTIQUE

Patent Applicant/Assignee:

REP INVESTMENT LIMITED LIABILITY COMPANY,

RUZICKA Jerome E,

Inventor(s):

RUZICKA Jerome E,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9948327 A1 19990923

Application: WO 99US6001 19990319 (PCT/WO US9906001)

Priority Application: US 9844620 19980319

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
FI GB GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG
US UZ VN YU ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM
AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM
GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 17494

Fulltext Availability:

Detailed Description

Detailed Description

... reproduces a (L - R) difference signal, as described with respect to Figure 2.

The side **speakers** 102 and 104 each comprise a sealed enclosure of approximately 2 cubic inches and houses...

...impedance 1.5 inch diameter plastic cone tweeter. A pair of 4.7 micro farad **capacitors** connected in series with the positive inputs to side **speakers** 102 and 104 provide high pass filtering for left **high pass filter** 118 and right **high pass filter** 120. The **high pass filters** 118 and 120 provide a nominal frequency band of approximately 4 KHz to 15 KHz output from side **speakers** 102 and 104. The sub-woofer 110 is a conventional dual volume enclosure design comprised...

...in conjunction with a pair of 5.25 inch diameter 4 ohm voice coil electrodynamic **transducers**. A pair of 0.8 milli-Henry **inductors** in series with the positive input to each of the **transducers** perform a crossover function. The sub-woofer bass unit 110 nominally operates in ...

...50 Hz to 200 Hz. It should be noted that in each of the above-described **speakers**, the crossover network is integrated into the enclosure for the associated **speaker**. Further, it will be noted that the band limiting filters 118 and 120 are integrally included in **speakers** 102 and 104,

respectively. In this manner, the band limiting device and the associated satellite **speaker** form an integral unit. This provides the added benefit that the interconnect module 14 of...

28/3,K/6 (Item 6 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00369523 **Image available**

IN-HOME THEATER SURROUND SOUND SPEAKER SYSTEM

SYSTEME DOMESTIQUE DE HAUT-PARLEURS RENDANT L'AMBIANCE ACOUSTIQUE D'UNE SALLE DE SPECTACLES

Patent Applicant/Assignee:

REP INVESTMENT LIMITED LIABILITY COMPANY,

Inventor(s):

GREENBERGER Hal P,

CLACK William F,

RUZICKA Jerome E,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9709851 A1 19970313

Application: WO 96US14290 19960906 (PCT/WO US9614290)

Priority Application: US 95525364 19950907

Designated States: AL AM AT AU AZ BB BG BR BY CA CH CN CU CZ DE DK EE ES FI
GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN KE LS MW SD SZ
UG AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC
NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 19042

Fulltext Availability:

Detailed Description

Detailed Description

... designed to specifically integrate with the speaker electrodynamic characteristics.

One preferred embodiment of the surround **sound** system 100 includes a center **speaker** 106 comprising a sealed enclosure of approximately 50 cubic inches housing a commercially available 3 inch diameter dual 8 ohm voice coil electrodynamic transducer. A pair of 100 micro farad **capacitors** connected in series with the positive output of the respective left and right channel signals performs a crossover function. The center **speaker** 106 has an operating bandwidth above approximately 150 Hz. The rear **speaker** 108 uses a similar configuration, but uses a single voice coil, rather than a dual voice coil transducer. The rear **speaker** 108 includes a sealed enclosure of approximately 50 cubic inches and houses a commercially available...

...3 watt wirewound potentiometer. Potentiometer 109 allows a variation in the output level of rear **speaker** 108. A 68 micro farad **capacitor** connected in series with the input to the positive terminal of the voice coil performs a crossover function. The nominal frequency band of the rear **speaker** 108 is 150 Hz to 8 KHz. The rear **speaker** 108 reproduces a (L - R) difference signal, as described with respect to Figure 2. The side **speakers** 102 and 104 each comprise a sealed enclosure of approximately 2 cubic inches and houses...

...impedance 1.5 inch diameter plastic cone tweeter. A pair of 4.7 micro farad **capacitors** connected in series with the positive inputs to side

speakers 102 and 104 provide high pass filtering for left high pass filter 118 and right high pass filter 120. The high pass filters 118 and 120 provide a nominal frequency band of approximately 4 KHz to 15 KHz output from side speakers 102 and 104. The sub-woofer I 10 is a conventional dual volume enclosure design...

...in conjunction with a pair of 5.25 inch diameter 4 ohm voice coil electrodynamic transducers. A pair of 0.8 milli-Henry inductors in series with the positive input to each of the transducers perform a crossover function. The sub-woofer bass unit 110 nominally ...Hz to 200 Hz. It should be noted that in each of the above-described speakers, the crossover network is integrated into the enclosure for the associated speaker. Further, it will be noted that the band limiting filters 118 and 120 are integrally included in speakers 102 and 104, respectively. In this manner, the band limiting device and the associated satellite speaker form an integral unit. This provides the added benefit that the interconnect module 14 of...

28/3,K/7 (Item 7 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT
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00317981 **Image available**
USE OF A FLUID FLOW MEASURING DEVICE AS A MICROPHONE AND SYSTEM COMPRISING
SUCH A MICROPHONE
UTILISATION D'UN DISPOSITIF DE MESURE DU DEBIT D'UN FLUIDE A TITRE DE
MICROPHONE, ET SYSTEME COMPORTANT UN TEL MICROPHONE

Patent Applicant/Assignee:

STICHTING VOOR DE TECHNISCHE WETENSCHAPPEN,
DE BREE Hans-Elias,
LAMMERINK Theodorus Simon Joseph,
ELWENSPOEK Michael Curt,
FLUITMAN Johannes Hermanus Josephus,

Inventor(s):

DE BREE Hans-Elias,
LAMMERINK Theodorus Simon Joseph,
ELWENSPOEK Michael Curt,
FLUITMAN Johannes Hermanus Josephus,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9600488 A1 19960104

Application: WO 95NL220 19950622 (PCT/WO NL9500220)

Priority Application: NL 941051 19940624

Designated States: AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU
IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD
SE SG SI SK TJ TM TT UA UG US UZ VN KE MW SD SZ UG AT BE CH DE DK ES FR
GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 6978

Fulltext Availability:

Claims

Claim

... through the channel

1 Of course, instead of capacitors C1 and C2 any other suitable high pass filter can be used.

With the device in Figure.2a, the variations in the magnitude of...

...element H, respectively, were 40 pm. To be applicable as a microphone for the audio range, the open spacings are preferably less than 300 pm. Using the electrical circuit according...

...also reproduces these only with attenuation. Figure 3 shows, diagrammatically, an amplifier 9 and a loud

speaker 10 connected thereto, with which the output signal AUo can be converted into an amplified a 1/f characteristic (f being the frequency of the audio wave) the amplifier 9, preferably, has a linear f characteristic, or, in other words, shows...

...e., $R_1 = R_2 = 00$. On the other hand, it is also possible to integrate the resistors R_3 , R_5 and R_4 (Figure 2b) as well. Of course, said resistances R_1 to R_5 ...

...value.

Figures 4a-4d show some alternative electrical circuits for converting the resistance variations of resistors R_u and R_d into a varying electrical signal, i.e., either a varying current or...

...4d

are based on the application of a Widlar current mirror or "gadget", in which resistor R_u is connected as an emitter resistor to a transistor T_1 , the base of which being short-circuited to its collector, and resistor R_d is connected as an emitter resistor to a transistor T_2 . The bases of transistors T_1 and T_2 are connected to one...

...collector of transistor T_1 may be connected to a power supply voltage V_b through a resistor R_{11} , as shown in figure 4a, or to a current source I , as shown in...

...the collector of transistor T_2 is connected to the power supply voltage V_b through a resistor R_{12} . An output voltage V_o is available between the collector of the transistor T_2 ...the arrangement of figure 4b may be transferred in an output voltage by connecting a resistor to the collector of transistor T_2 .

Figure 4c shows a further alternative electrical circuit, in which, however, the basic arrangement of transistors T_1 f T_2 and of resistors R_u , R_d is unchanged. The collector of transistor T_1 is connected to the collector of a pnp transistor T_3 through a resistor R_{13} . Transistor T_3 is connected in a Widlar current mirror configuration with a pnp transistor T_4 and with emitter resistors R_{11} and R_{12} as shown in figure 4c. The collector of transistor T_4 is connected to the collector of transistor T_2 . Resistors R_{11} , R_{12} may be sensors of a further microphone based on fluid flow measurements, like resistors R_u , R_d . Alternatively, either resistors R_u and R_{12} or R_d and R_{11} in combination may be part of microphones based on fluid flow measurements. Likewise, any of the resistors R_u , R_d , R_{11} , or R_{12} may be part of a microphone with just one heating...

...sensor (see figure 1d). Figure 4d shows a circuit for converting resistance variations of resistors R_d and R_u into a varying electrical signal, in which three cascaded Widlar current mirrors...

...to an input of a pnp Widlar current mirror of transistors T_3 , T_4 and emitter resistors R_{11} ,

R12. The output of the latter pnp Widlar current mirror is connected to an input of an npn Widlar current mirror comprising transistors T5, T6 and emitter **resistors** R1 51 R1 6. The collector current of transistor T6 provides the output current Io...

...cuit. The output current Io can be converted into an output voltage by connecting a **resistor** to the collector of transistor T6, like the **resistor** R12 in figure 4a. Like in the arrangement according to figure 4c, **resistors** R11, R12, R151 R16 can, either alone or in combination with another one, be part...

...The g-Flown, a novel device measuring acoustical flows", to be presented at the conference **Transducers '95**, Stockholm, June 26..., 1995; H.E. de Bree, "The Wheatstone Gadget, a simple...

...circuits of figures 4a-4d for measuring differential resistance values between two (or more) variable **resistors** Ru, Rd may also be used in other configurations, i.e. configurations in which **resistors** Ru, Rd are no part of a microphone based on fluid flow measurements. Because of...?

Set	Items	Description
S1	74	ACTUATOR? OR TRANSDUCER?
S2	4706	LOUDSPEAKER?? OR LOUD()SPEAKER?? OR AUDIO OR SOUND OR SPEAKER??
S3	7	(NOTCH OR BANDREJECT OR BAND-REJECT OR BANDSTOP OR BAND-ST- OP OR BAND()REJECT? OR BAND()STOP) (3N) FILTER?
S4	6	(HIGHPASS OR HIGH-PASS OR HIGH()PASS) (3N) FILTER? OR HPF
S5	0	REVERSE() (L OT T OR PI) ()TYPE()CIRCUIT?
S6	0	INDUCTOR?? AND PARALLEL
S7	0	CAPACITOR? AND SERIAL?
S8	0	RESISTOR? AND PARALLEL
S9	2	(VOICE OR AUDIO OR SOUND) ()COIL??
S10	0	S1 AND S2 AND (S3 OR S4)
S11	0	S1 AND (S3 OR S4)
S12	7	S1 AND S2
S13	21	S12 OR S3 OR S4 OR S9
S14	4	S13 AND PY=2002:2004
S15	17	S13 NOT S14

15/3,K/1

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
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02711063 DOCUMENT TYPE: Company

DIVISION NAME: New Transducers Ltd

NXT PLC (711063)
NXT Technology Centre
Huntingdon, PE29 6FW United Kingdom
TELEPHONE: 870-7775555
FAX: () 148-0846190
HOMEPAGE: <http://www.nxtsound.com>

RECORD TYPE: Directory

CONTACT: Sales Department

STATUS: Active

SALES: NA

DATE FOUNDED: 1977

PERSONNEL: Pearson, David, Chief Executive Officer; Owen, Gordon,
Chairperson; Azima, Henry, Chief Technology Officer

REVISION DATE: 20020412

DIVISION NAME: New Transducers Ltd

...founded by Farad Azima in 1977. The company originally was called Mission Electronics and produced **loudspeakers** under the Cyrus brand name. Mission merged with Wharfedale in 1992 and in 1994 purchased both Quad Electroacoustics and Premier Percussion. After developing the distributed mode **loudspeaker** with Professor Ken Heron of Britain's Defence Evaluation and Research Agency (DERA), the company...

DESCRIPTORS: Sound Processing

15/3,K/2

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
(c)2004 Info.Sources Inc. All rts. reserv.

01782386 DOCUMENT TYPE: Product

PRODUCT NAME: DeComposer (782386)

eHartwell Products (661741)
3378 Sutton Rd #1
Shaker Heights, OH 44120 United States

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20040122

...Note Filter can filter any range of notes. The Frequency Filter can create custom LowPass, BandStop, and other **filters**. It can remove pops,

hums, and other noise or reduce the volume of a note...

15/3,K/3

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
(c)2004 Info.Sources Inc. All rts. reserv.

01669822 DOCUMENT TYPE: Product

PRODUCT NAME: HI WAVE Harmonic Investigation & Filter Design 4.0 (669822)

SKM Systems Analysis Inc (471691)
225 S Sepulveda Blvd #350 PO Box 90266-1376
Manhattan Beach, CA 90266-1376 United States
TELEPHONE: (310) 372-0088

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20020130

...can be defined at multiple bus locations in the power system. Capacitor banks, low pass **filters** and **high - pass filters** can be included in the voltage and current distortion evaluation, in impedance resonance scans and...

15/3,K/4

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
(c)2004 Info.Sources Inc. All rts. reserv.

01179779 DOCUMENT TYPE: Product

PRODUCT NAME: Etnus TotalView 6.3 (179779)

Etnus LLC (744921)
24 Prime Pkwy
Natick, MA 01760 United States
TELEPHONE: (508) 652-7700

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20031231

...type mapping component supports the display of complex objects. Etnus TotalView supports MPI, OpenMP, PVM, **HPF** , and other parallel programming models. The product allows developers to control individual and groups of ...

15/3,K/5

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
(c)2004 Info.Sources Inc. All rts. reserv.

01128783 DOCUMENT TYPE: Product

PRODUCT NAME: SignProc (128783)

RockWare Inc (479888)
2221 East St #101
Golden, CO 80401 United States
TELEPHONE: (303) 278-3534

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20030205

...the pole, and power and phase spectra filters. It includes low pass, high pass, band, **notch**, and matched **filtering** options. SignProc also provides users with analytic signal, space domain, and Savitsky-Golay filters. The...

15/3,K/6

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
(c)2004 Info.Sources Inc. All rts. reserv.

01076856 DOCUMENT TYPE: Product

PRODUCT NAME: OpenSpeech Recognizer 1.0 (076856)

ScanSoft Inc (088358)
9 Centennial Dr
Peabody, MA 01960 United States
TELEPHONE: (978) 977-2000

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20030413

...management, and other features. OpenSpeech Recognizer 1.0 integrates with AT&T's Finite State **Transducer** (FST) technology, supporting the recognition of over one million words. Endpointing technology filters line noise, improving wireless performance. The product can process complete phrases and sentences. It also handles multiple **speakers** and a wide range of accents. OpenSpeech Recognizer supports French, Spanish, Cantonese, Mandarin, German, English...

15/3,K/7

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
(c)2004 Info.Sources Inc. All rts. reserv.

01075957 DOCUMENT TYPE: Product

PRODUCT NAME: AudioEdit Deluxe 1.4 (075957)

Mystik Media (715492)
296 Captain Beam Blvd
Hampstead, NC 28443 United States

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20020330

...users can apply band pass, Fourier, high pass, high shelf, low pass, low shelf, and **notch filters** onto selected portions of audio files. Users can also insert album, artist, copyright, and other...

15/3,K/8

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
(c)2004 Info.Sources Inc. All rts. reserv.

00134715 DOCUMENT TYPE: Review

PRODUCT NAMES: OpenSpeech Recognizer 1.0 (076856)

TITLE: SpeechWorks' OpenSpeech Recognizer 1.0
AUTHOR: O'Herron, Jennifer
SOURCE: Call Center Magazine, v14 n9 p81(1) Sep 2001
ISSN: 1064-5543
HOMEPAGE: <http://www.callcentermagazine.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20030825

...and end of a spoken group of words in order to differentiate between what the **speaker** said and background noise. OpenSpeech, which uses AT&T's Finite State **Transducer** software to store more vocabulary and grammar files with less memory, supports over one million...

15/3,K/9

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
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00133921 DOCUMENT TYPE: Review

PRODUCT NAMES: SoundVu (065323)

TITLE: Future Sounds Through the Looking Glass: A new sound technology...
AUTHOR: Erlanger, Leon
SOURCE: Mobile Computing & Communications, v12 n10 p20(1) Oct 2001
ISSN: 1047-5567
HOMEPAGE: <http://www.mobilecomputing.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20030330

TITLE: Future Sounds Through the Looking Glass: A new sound technology.....

NXT PLC's SoundVu is a new **sound** technology that will turn ceiling tiles, car doors, corrugated cardboard, and various other materials into functioning **loudspeakers**. The technology will soon turn flat- panel

displays into acoustic devices by using carefully placed **transducers** to excite the flat-panel's plastic or glass to produce high-quality **sound**. It is based on NXT's Distributed Mode **Loudspeaker** (DML) technology, which is also known as **Surface Sound**. Ericsson, General Motors, Matsushita Communication, Diamler-Chrysler, and NEC are some of the 220 licensees...

...The spatial and cost advantages are obvious, but SoundVu offers other operational improvements over traditional **speakers**. Unlike other **speakers**, a listener does not have to be right in front of the **speakers** to hear **sound** correctly. Using multiple excitors and spatialization techniques, vendors can create surround- **sound** effects from a single panel.

DESCRIPTORS: Cell Phones; Computer Equipment; Electronics; **Sound Processing**

15/3,K/10

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
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00131366 DOCUMENT TYPE: Review

PRODUCT NAMES: ANSYS Flexible Rotor Analysis Tool (056332); Mathcad (013626)

TITLE: **Analysis-Driven Design: The Miniature TMP, Part 2**

AUTHOR: Johnson, Mark C McNamee, Michael Miller, Eric Addink, Jason

SOURCE: Desktop Engineering Magazine, v6 n10 p36(4) Jun 2001

ISSN: 1085-0422

HOMEPAGE: <http://www.deskeng.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20030428

...created. The ANSYS Flexible Rotor Analysis Tool again was employed in determining inductance of the **voice coil** damping system, which is an essential component in rotor stability. PADT engineers also used the...

15/3,K/11

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
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00130904 DOCUMENT TYPE: Review

PRODUCT NAMES: Mechanical Engineering (845621)

TITLE: **Building the Miniature TMP, Part I**

AUTHOR: Johnson, Mark C Miller, Eric McNamee, Michael Addink, Jason

SOURCE: Desktop Engineering Magazine, v6 n9 p18(4) May 2001

ISSN: 1085-0422

HOMEPAGE: <http://www.deskeng.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20010830

...full modal/stress analysis of bladed rotor, system static thermal, and static and inductance for **voice coil** damper. A future discussion will describe the management of vibrations in the miniature TMP through...

...to be covered in a future discussion are stress analysis of rotor, thermal analysis, and **voice coil** -damping.

15/3,K/12

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
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00124725 DOCUMENT TYPE: Review

PRODUCT NAMES: **cleaner Power Suite 4.02 (008419)**

TITLE: **Media Cleaner Power Suite v4.0.2**

AUTHOR: Christiansen, Mark

SOURCE: Digital Video Magazine, v8 n5 p96(3) May 2000

ISSN: 1075-251X

HOME PAGE: <http://www.dv.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20021125

...used. Significant improvement is apparent in sound compression. Other foundational enhancements to sound include new **filters**, such as **High Pass**, **Low Pass**, and many others. Media Cleaner Power Suite 4.02 is recommended for all...

15/3,K/13

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
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00107774 DOCUMENT TYPE: Review

PRODUCT NAMES: **Media 100xr 4.5 PowerMac (697338)**

TITLE: **Mac OS: Audio Capabilities for the Media 100**

AUTHOR: Staff

SOURCE: Videography, v23 n4 p48(2) Apr 1998

ISSN: 0363-1001

HOME PAGE: <http://www.videography.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20010730

...MID, and LOW frequency ranges that can be used as a parametric EQ or a **notch filter**. A collection of 30 preset EQs for multiple scenarios, including noise-reduction for common problems...

15/3,K/14

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
(c)2004 Info.Sources Inc. All rts. reserv.

00099376 DOCUMENT TYPE: Review

PRODUCT NAMES: GammaTech Utilities for OS/2 (413763)

TITLE: Is there a PC doctor in the house?

AUTHOR: Linfield, Kevin

SOURCE: Computing Canada, v22 n25 p30(1) Dec 5, 1996

ISSN: 0319-0161

HOME PAGE: <http://www.plesman.com/cc>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 20020130

...drive and floppy disks; tp analyze and mark bad sectors; to recover lost or damaged **HPF** partitions; to back up and restore the computer's boot sector; to join multiple-floppy...

15/3,K/15

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
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00091554 DOCUMENT TYPE: Review

PRODUCT NAMES: Snap-Master for Windows (432474); MATLAB 4.2 (241661);
Signal Processing Toolbox (485551); EasyPlot (265195)

TITLE: Digital signal processing--it's not just FFTs anymore

AUTHOR: Porter, Michael L

SOURCE: Personal Eng & Instrumentation News, v13 n3 p38(9) Mar 1996

ISSN: 0748-0016

HOME PAGE: <http://www.pein.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20030625

...signal processing (DSP) environments. Snap-Master includes a General Analysis module with an assortment of **filters** including bandpass, **notch**, and more. HEM's Frequency Analysis module handles fast Fourier transformations (FFT). Others support FHT...

15/3,K/16

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.
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00072536 DOCUMENT TYPE: Review

PRODUCT NAMES: Fortran 90 (830170)

TITLE: High-Performance FORTRAN Tunes Programs to Machine

AUTHOR: Feibus, Andy

SOURCE: Open Systems Today, v163 p20(1) Nov 14, 1994

ISSN: 1061-0839

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

REVISION DATE: 20030728

...programs for particular hardware platform high performance features. The resulting High-Performance FORTRAN 1.0 (HPF) extensions are available via FTP from cs.rice.edu. HPF extends FORTRAN 90 with data distribution, parallel execution, parallel algorithm design assistance, and support for nonportable, machine specific code. HPF allows users to distribute an array over multiple processors using sets of contiguous blocks or striping.

HPF also provides the LIGN directive for aligned arrays that place certain elements from each array into the same processors memory area, irrespective of array distribution. Other HPF functions, including FORALL, PURE, and EXTRINSIC, are described.

15/3,K/17

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.

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00063173 DOCUMENT TYPE: Review

PRODUCT NAMES: DT VEE for Windows B.02.00 (478091)

TITLE: Graphical Environment Balances Fast Program Development, Execution...

AUTHOR: Porter, Michael L

SOURCE: Personal Eng & Instrumentation News, v11 n4 p47(8) Apr 1994

ISSN: 0748-0016

Homepage: <http://www.pein.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

REVISION DATE: 19980830

...supported, including output to other Microsoft Windows applications. Many unincluded functions, such as objects for **highpass**, **bandpass**, and **bandstop filters**, can be created from provided operators. Users can also construct custom algorithms and functions, using...
?

File 2:INSPEC 1969-2004/Feb W3
 (c) 2004 Institution of Electrical Engineers
 File 6:NTIS 1964-2004/Feb W4
 (c) 2004 NTIS, Intl Cpyrgh All Rights Res
 File 8:Ei Compendex(R) 1970-2004/Feb W3
 (c) 2004 Elsevier Eng. Info. Inc.
 File 34:SciSearch(R) Cited Ref Sci 1990-2004/Feb W3
 (c) 2004 Inst for Sci Info
 File 35:Dissertation Abs Online 1861-2004/Jan
 (c) 2004 ProQuest Info&Learning
 File 62:SPIN(R) 1975-2004/Jan W1
 (c) 2004 American Institute of Physics
 File 65:Inside Conferences 1993-2004/Feb W4
 (c) 2004 BLDSC all rts. reserv.
 File 94:JICST-EPlus 1985-2004/Feb W3
 (c) 2004 Japan Science and Tech Corp (JST)
 File 95:TEME-Technology & Management 1989-2004/Feb W2
 (c) 2004 FIZ TECHNIK
 File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Jan
 (c) 2004 The HW Wilson Co.
 File 144:Pascal 1973-2004/Feb W3
 (c) 2004 INIST/CNRS
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
 (c) 1998 Inst for Sci Info
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
 (c) 2002 The Gale Group
 File 603:Newspaper Abstracts 1984-1988
 (c) 2001 ProQuest Info&Learning
 File 483:Newspaper Abs Daily 1986-2004/Feb 24
 (c) 2004 ProQuest Info&Learning

Set	Items	Description
S1	312037	ACTUATOR? OR TRANSDUCER?
S2	625086	LOUDSPEAKER?? OR LOUD()SPEAKER?? OR AUDIO OR SOUND OR SPEAKER??
S3	9296	(NOTCH OR BANDREJECT OR BAND-REJECT OR BANDSTOP OR BAND-ST- OP OR BAND()REJECT? OR BAND()STOP) (3N) FILTER?
S4	12248	(HIGHPASS OR HIGH-PASS OR HIGH() PASS) (3N) FILTER? OR HPF
S5	0	REVERSE() (L OR TEE OR T OR PI) ()TYPE()CIRCUIT?
S6	2208	INDUCTOR?? AND PARALLEL
S7	628	CAPACITOR? AND SERIAL?
S8	3779	RESISTOR? AND PARALLEL
S9	1606	(VOICE OR AUDIO OR SOUND) ()COIL??
S10	41	(L OR TEE OR T OR PI) ()TYPE()CIRCUIT?
S11	40	S1 AND S2 AND (S3 OR S4)
S12	0	S11 AND S6 AND S7 AND S8
S13	0	S11 AND S6:S8
S14	0	S11 AND S10
S15	0	S11 AND S10
S16	1	S6 AND S7 AND S8
S17	1	S11 AND S9
S18	1	S17 NOT S16
S19	2	S1 AND S10
S20	2	S19 NOT (S17 OR S16)
S21	2	RD S20 (unique items)
S22	426	S1 AND (S3 OR S4)
S23	0	S22 AND S6 AND S7 AND S8
S24	2	S22 AND S6:S8
S25	2	S24 NOT (S19 OR S17 OR S16)
S26	1	RD S25 (unique items)
S27	144	S1 AND S2 AND S9

S28 0 S27 AND INDUCTOR?? AND CAPACITOR? AND RESISTOR?
S29 0 S27 AND PARALLEL AND SERIAL?
S30 0 S27 AND (L OR TEE OR T OR PI) (3N)CIRCUIT?
S31 1 S27 AND (S3 OR S4)
S32 0 S31 NOT (S24 OR S19 OR S17 OR S16)

16/3,K/1 (Item 1 from file: 8)
DIALOG(R) File 8:EI Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

04400792 E.I. No: EIP96053165668

Title: Simulation of microwave devices containing discrete circuit elements by using the finite integration technique

Author: Thoma, P.; Weiland, T.

Corporate Source: Technical Univ of Darmstadt, Darmstadt, Ger

Conference Title: Proceedings of the 1996 3rd International Conference on Computation in Electromagnetics

Conference Location: Bath, UK Conference Date: 19960410-19960412

E.I. Conference No.: 44652

Source: IEE Conference Publication n 420 1996. IEE, Stevenage, Engl. p 159-164

Publication Year: 1996

CODEN: IECPB4 ISSN: 0537-9989

Language: English

...Abstract: FI-method as proposed by K.S. Kunz and R.J. Luebbers. The implementation includes **parallel** and **serial** connected **resistors**, **capacitors**, inductances and sources. The accuracy of the model is studied by a simple test example and afterwards the usage of lumped **resistors** as terminations of microstrip lines is demonstrated. It turns out that for a medium frequency...

...good agreement is demonstrated between previously published results and a fast FDTD simulation involving lumped **resistors** as matched loads.

(Author abstract) 9 Refs.

Descriptors: Microwave devices; Computer simulation; Lumped parameter networks; Integration; **Resistors** ; Electric inductors ; Capacitors ; Mathematical models; Finite difference method; Time domain analysis ?

Not
Speaker
Specific

18/3,K/1 (Item 1 from file: 94)

DIALOG(R) File 94:JICST-EPlus

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03939478 JICST ACCESSION NUMBER: 98A0888772 FILE SEGMENT: JICST-E
Stroll through the audio measurement. Measure around the f0 of speaker

OGURA KOICHI (1)

Radio Gijutsu, 1998, VOL.52,NO.10, PAGE.147-152, FIG.11, REF.1

JOURNAL NUMBER: F0256AAA

UNIVERSAL DECIMAL CLASSIFICATION: 621.37:534.85

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

Stroll through the audio measurement. Measure around the f0 of speaker

ABSTRACT: The voice coil impedance and the frequency characteristics of current of the full range speaker which is made in U.S.A. are measured, and the behavior of f. DAR...

...that there are some relation exist between the impedance and low-frequency characteristics of the speaker around f. DAR.0.DAR..

In addition, the amplitude characteristics of the center of cone...

...the laser displacement gage. Also this paper describes that the response changes greatly especially in high pass filter when the relative position of microphone and speaker is changed.

DESCRIPTORS: loudspeaker ; ...

... audio equipment

IDENTIFIERS: voice coil

BROADER DESCRIPTORS: acoustic transducer ;

?

21/3,K/1 (Item 1 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

5300504 INSPEC Abstract Number: B9608-7230-006

Title: **Equivalent circuit analysis of supporting-wires in a piezoelectric flexurally-vibrating bar gyroscope**

Author(s): Sugawara, S.; Sugimoto, M.

Author Affiliation: Fac. of Sci. & Technol., Ishinomaki Senshu Univ., Japan

Journal: Transactions of the Institute of Electronics, Information and Communication Engineers A vol.J79-A, no.5 p.1022-31

Publisher: Inst. Electron. Inf. & Commun. Eng,

Publication Date: May 1996 Country of Publication: Japan

CODEN: DJTAER ISSN: 0913-5707

SICI: 0913-5707(199605)J79A:5L.1022:ECAS;1-2

Material Identity Number: K838-96007

Language: Japanese

Subfile: B

Copyright 1996, IEE

...Abstract: Also, a spurious response is caused by the antiresonance of the supporting-wire. In the **T - type circuit** description for the supporting-wire, the parallel element causes the coupling between the double-resonant...

...Descriptors: piezoelectric **transducers** ;

...Identifiers: **T - type circuit** description

21/3,K/2 (Item 1 from file: 8)

DIALOG(R) File 8:EI Compendex(R)

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04983160 E.I. No: EIP98034143039

Title: **Implementation of Mason's transducer model for piezoelectric polymer films**

Author: Zheng, Xueren; Peng, Yan; Liu, Baiyong; Wang, Xi

Corporate Source: City Univ of Hong Kong, Hong Kong, China

Source: Yadian Yu Shengguang/Piezoelectrics and Acoustooptics v 19 n 5 1997. p 351-355, 359

Publication Year: 1997

CODEN: YASHE7 ISSN: 1004-2474

Language: Chinese

Title: **Implementation of Mason's transducer model for piezoelectric polymer films**

...Abstract: the loss transmission line has been studied with a LRC network of n sets of **T type circuits** cascaded one by one. Simulations were done for the PZT **transducer** and PVDF-MOSFET as an ultrasonic receiver based on the modified Mason's model equivalent...

Descriptors: Piezoelectric **transducers** ; Ultrasonic devices; Thin films; Organic polymers; Piezoelectric materials; Mathematical models; Computer simulation

?

26/3,K/1 (Item 1 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03257488 INSPEC Abstract Number: A88142002, B88074853, C88065330

Title: A programmable medical data acquisition system chip

Author(s): McGlinchey, G.; Pietkiewicz, S.; Frank, R.; Schmidt-Andersen, P.; Hansen, F.

Author Affiliation: Analog Devices, Campbell, CA, USA

Conference Title: Proceedings of the IEEE 1988 Custom Integrated Circuits Conference (Cat. No.88CH2584-1) p.9.4/1-6

Publisher: IEEE, New York, NY, USA

Publication Date: 1988 Country of Publication: USA 816 pp.

U.S. Copyright Clearance Center Code: CH2584-1/88/0000-0050\$01.00

Conference Sponsor: IEEE

Conference Date: 16-19 May 1988 Conference Location: Rochester, NY, USA

Language: English

Subfile: A B C

...Abstract: oxide semiconductor) process. This chip integrates a low-noise bipolar instrumentation amplifier, a programmable switched-capacitor notch filter, an 11-bit ADC (analog-to-digital converter), a 7-bit DAC, and an asynchronous serial interface. Biomedical signals such as ECG (electrocardiogram), EEG (electroencephalogram), invasive blood pressure, temperature, respiration, and cardiac output are picked up by transducers, probes, and electrodes. Typical signal levels are 50 μ Vp-p for the EEG and...

?

File 344:Chinese Patents Abs Aug 1985-2003/Nov
(c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2003/Oct (Updated 040202)
(c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200413
(c) 2004 Thomson Derwent

Set	Items	Description
S1	288605	ACTUATOR? OR TRANSDUCER?
S2	357054	LOUDSPEAKER?? OR LOUD()SPEAKER?? OR AUDIO OR SOUND OR SPEAKER??
S3	2772	(NOTCH OR BANDREJECT OR BAND-REJECT OR BANDSTOP OR BAND-STOP OR BAND()REJECT? OR BAND()STOP) (3N) FILTER?
S4	9303	(HIGHPASS OR HIGH-PASS OR HIGH()PASS) (3N) FILTER? OR HPF
S5	0	REVERSE() (L OR TEE OR T OR PI) ()TYPE()CIRCUIT?
S6	5800	INDUCTOR?? AND PARALLEL
S7	5440	CAPACITOR? AND SERIAL?
S8	31251	RESISTOR? AND PARALLEL
S9	8626	(VOICE OR AUDIO OR SOUND) ()COIL??
S10	83	(L OR TEE OR T OR PI) ()TYPE()CIRCUIT?
S11	328792	IC=(H04R OR G08B? OR H02K?)
S12	46	S1 AND S2 AND (S3 OR S4)
S13	0	S12 AND S6 AND S7 AND S8
S14	2	S12 AND S6:S8
S15	56	S6 AND S7 AND S8
S16	0	S15 AND S1
S17	0	S15 AND S2
S18	0	S15 AND (S3 OR S4)
S19	0	S15 AND S10
S20	18	S11 AND (S12 OR S15)
S21	17	S20 NOT S14
S22	1	S21 AND AD=20010822:20040220
S23	16	S21 NOT S22
S24	16	IDPAT (sorted in duplicate/non-duplicate order)
S25	16	IDPAT (primary/non-duplicate records only)

14/3,K/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015615746 **Image available**

WPI Acc No: 2003-677903/200364

XRPX Acc No: N03-541172

Multi-function actuator for generating sound and vibration, has voice coil with high - pass notch filter constituted by inductor (L) connected in parallel and capacitor (C) in series

Patent Assignee: SAMSUNG ELECTRO MECHANICS CO LTD (SMSU); SANSEI DENKI KK (SANS-N)

Inventor: SON Y H; YEON H S

Number of Countries: 005 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030044031	A1	20030306	US 20015264	A	20011112	200364 B
KR 2003016796	A	20030303	KR 200150537	A	20010822	200364
DE 10156816	A1	20030508	DE 1056816	A	20011120	200364
FI 200102146	A	20030223	FI 20012146	A	20011106	200364
JP 2003079123	A	20030314	JP 2001354374	A	20011120	200364

Priority Applications (No Type Date): KR 200150537 A 20010822

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030044031	A1	10		H04R-025/00	
KR 2003016796	A			H04R-009/00	
DE 10156816	A1			G08B-007/06	
FI 200102146	A			H04R-000/00	
JP 2003079123	A	7		H02K-033/18	

Multi-function actuator for generating sound and vibration, has voice coil with high - pass notch filter constituted by inductor (L) connected in parallel and capacitor (C) in series

Abstract (Basic):

... The actuator has a case with an internal space, a vibrating coil (9) installed in the case, a sound generating diaphragm, a voice coil (2) fixed under the diaphragm with a high pass notch filter, an upper plate attached to a magnet, a yoke, weight and springs. The high -pass notch filter is constituted by inductors (L) connected in parallel and capacitor (C) in series.

... Used for generating sound and vibration...

...The vibrations in the sound generation unit are reduced greatly. The frequencies are interrupted in specific ranges when the signals are applied to voice and vibration coils thereby improving sound quality

...

...The drawing shows a multifunction actuator .

...

... Inductor (L)

...Title Terms: SOUND ;

14/3,K/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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009685667 **Image available**
WPI Acc No: 1993-379221/199348
XRPX Acc No: N93-292865

Combined force, expansion and sound detector e.g. for monitoring drilling machine tool - moulds piezoelectric element, base and HF filter resistor together to form component and encloses in housing whose floor is separated from measured object by small distance when coupling membrane is unstressed.

Patent Assignee: KK HOLDING AG (KKHO-N)

Inventor: CAVALLONI C; PRIDOEHLE E

Number of Countries: 005 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 572349	A1	19931201	EP 93810298	A	19930423	199348	B
CH 683718	A5	19940429	CH 921558	A	19920515	199417	
EP 572349	B1	19951227	EP 93810298	A	19930423	199605	
DE 59301235	G	19960208	DE 501235	A	19930423	199611	
			EP 93810298	A	19930423		
US 5524491	A	19960611	US 9361321	A	19930514	199629	

Priority Applications (No Type Date): CH 921558 A 19920515

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 572349	A1	G	5	G01H-001/00	
				Designated States (Regional):	AT DE GB
EP 572349	B1	G	5	G01H-001/00	
				Designated States (Regional):	AT DE GB
DE 59301235	G			G01H-001/00	Based on patent EP 572349
US 5524491	A		4	G01N-029/14	
CH 683718	A5			G01H-001/12	

Combined force, expansion and sound detector e.g. for monitoring drilling machine tool...

...moulds piezoelectric element, base and HF filter resistor together to form component and encloses in housing whose floor is separated from measured object...

...Abstract (Basic): The combined detector has a sound sensor (1) comprising a module with a piezoelectric element (9) fitted to a base (8...

...piezoelectric element is partially embedded in resin (10) incorporating an electrical resistance (11) connected in parallel with the piezoelectric element, to form a high - pass filter together with the sensor capacitance...

...given distance from the surface of the measured object (15), the base (8) of the sound sensor coupled to the object surface...

...ADVANTAGE - Easy mfr., allowing miniaturisation with good transmission of HF sound with frequency of about 2MHz...

...Abstract (Equivalent): Combined force, strain and sound emission transducer, the sound emission sensor forming one assembly unit comprising a piezoelement element (9), an assembly base (8...

...Abstract (Equivalent): Combined force, strain and sound emission transducer characterized by...

...a sound emission sensor for sensing sounds of 100 KHz and above and forming one assembly unit...

...the coupling diaphragm lying in a recess in the bottom of a housing of
the **transducer** ; and...

...Title Terms: **SOUND** ;

?

25/3,K/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014622198 **Image available**

WPI Acc No: 2002-442902/200247

XRPX Acc No: N02-348855

Bending wave loudspeaker for sound reproduction, has panel capable of supporting bending wave, low frequency transducer, high frequency transducer and crossover circuit.

Patent Assignee: NEW TRANSDUCERS LTD (NEWT-N); BURTON P (BURT-I)

Inventor: BURTON P

Number of Countries: 096 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020018578	A1	20020214	US 2000222933	A	20000804	200247 B
			US 2001917813	A	20010731	
AU 200175698	A	20020218	AU 200175698	A	20010724	200247
WO 200213574	A2	20020214	WO 2001GB3310	A	20010724	200247

Priority Applications (No Type Date): GB 200018997 A 20000803

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020018578	A1	11		H04R-001/00	Provisional application US 2000222933
AU 200175698	A			H04R-007/04	Based on patent WO 200213574
WO 200213574	A2	E		H04R-007/04	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

Bending wave loudspeaker for sound reproduction, has panel capable of supporting bending wave, low frequency transducer, high frequency transducer and crossover circuit.

Abstract (Basic):

... The bending wave **loudspeaker** has a panel capable of supporting a bending wave, a low frequency **transducer**, a high frequency **transducer** and a crossover circuit.

... The low frequency **transducer** is mounted to the panel for exciting bending waves in the panel at frequencies below a predetermined frequency. The high frequency **transducer** is mounted to the panel for exciting bending waves in the panel at frequencies above the predetermined frequency. The crossover circuit supplies signals to the low frequency **transducer** at frequencies below the predetermined frequency, and supplies signals to the high frequency **transducer** at frequencies above the predetermined frequency. The predetermined frequency is equal to the coincidence frequency. Preferably the crossover circuit comprises a low pass filter connected to the low frequency **transducer**, and a high pass filter connected to the high frequency **transducer**. The high pass filter includes additional circuitry to reduce the response above the coincidence frequency. INDEPENDENT CLAIMS are included for a method of driving a panel-form **loudspeaker**.

...
...For bending wave **loudspeaker**.

*Azima
Ckt case,
not speaker
component
specific*

...Provides for satisfactory control of coincidence effect in a panel-form **loudspeaker** .

...

...The figure shows a schematic diagram illustrating the electrical arrangement for the **loudspeaker** .

...

...Low frequency **transducer** (3...

...High frequency **transducer** (5...

... High pass filter (7

...Title Terms: **LOUDSPEAKER** ;

International Patent Class (Main): **H04R-001/00** ...

... **H04R-007/04**

International Patent Class (Additional): **H04R-003/14** ...

... **H04R-025/00**

25/3,K/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012645079 **Image available**

WPI Acc No: 1999-451184/199938

XRPX Acc No: N99-337665

Low frequency electroacoustic transducer used in stereo - supplies band signal from low pass filter to voice coil through amplifier

Patent Assignee: ONKYO KK (ONKY)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11187477	A	19990709	JP 97367269	A	19971224	199938 B

Priority Applications (No Type Date): JP 97367269 A 19971224

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 11187477 A 6 H04R-003/00

Low frequency electroacoustic transducer used in stereo...

...Abstract (Basic): A low frequency signal (S1) from a low pass filter (LPF1) is passed through a **high pass filter** (HPF) and a low pass filter (LPF2). A band signal (S2) from the low pass filter...

...ADVANTAGE - An inexpensive electroacoustic **transducer** with an amplifier circuit for low frequencies is obtained and output circuit for the low frequencies is obtained and output of **sound** quality is enhanced. DESCRIPTION OF DRAWING(S) - The figure shows the circuit block connection diagram of low frequency electroacoustic **transducer** . (21,22) Amplifiers; (111,112) Voice coils; (LPF1,LPF2) Low pass filters ; (HPF) **High pass filter** ; (S1) Low frequency signal; (S2) Band signal...

...Title Terms: **TRANSDUCER** ;

International Patent Class (Main): **H04R-003/00**

25/3,K/3 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

012324433 **Image available**

WPI Acc No: 1999-130539/199911

XRPX Acc No: N99-094971

Burning wood sound simulator for fire place - has electroacoustic transducer coupled to signal processor to receive unipolar output signals from converter

Patent Assignee: DEA MFG (DEAD-N)

Inventor: ANKELE E T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5861798	A	19990119	US 97813835	A	19970306	199911 B

Priority Applications (No Type Date): US 97813835 A 19970306

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5861798	A	8		G08B-003/10	

Burning wood sound simulator for fire place...

...has electroacoustic transducer coupled to signal processor to receive unipolar output signals from converter

...Abstract (Basic): NOVELTY - An electroacoustic transducer (70) is coupled to a signal processor (50) through a power amplifier (60) to receive...

...amplifier and passed to a frequency selective amplifier (30) having a feedback loop with T notch filter. The pass band of the filter is 250-550Hz and peak frequency response is centered...

...output signal of the filter. An INDEPENDENT CLAIM is also available for burning wood log sound generation method...

...ADVANTAGE - Enables generation of sound of burning natural wood logs, when gas or electric artificial log fire is used. Enables generation of crackles and pop sound. DESCRIPTION OF DRAWING(S) - The drawing shows simulator circuit. (10) Zener diode (20) Pre-amplifier; (30) Frequency selective amplifier; (40) Converter; (50) Signal processor; (60) Power amplifier; (70) Electro-acoustic transducer .

...Title Terms: SOUND ;

International Patent Class (Main): G08B-003/10

25/3,K/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

010493322 **Image available**

WPI Acc No: 1995-394642/199551

Related WPI Acc No: 2000-225985; 2000-225986

XRPX Acc No: N95-287779

Transmitter receiver with ear piece type acoustic transducer - filters signals from bone pick-up and sound microphone for respective components lower and higher than preset cut-off frequency

Patent Assignee: NIPPON TELEGRAPH & TELEPHONE CORP (NITE)

Inventor: AOKI S; MATSUI H; MATSUMOTO K; MITSUHASHI K; NISHINO Y; YUSE C

Number of Countries: 006 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 683621	A2	19951122	EP 95107430	A	19950516	199551 B
JP 7312634	A	19951128	JP 94103766	A	19940518	199605
CA 2149563	A	19951119	CA 2149563	A	19950517	199613
JP 8070344	A	19960312	JP 94203977	A	19940829	199620
EP 683621	A3	19970129	EP 95107430	A	19950516	199713
US 5933506	A	19990803	US 95441988	A	19950516	199937
CA 2149563	C	19990928	CA 2149563	A	19950517	200006
JP 3082825	B2	20000828	JP 94203977	A	19940829	200044
EP 683621	B1	20020327	EP 95107430	A	19950516	200222
			EP 99123289	A	19950516	
			EP 99123290	A	19950516	
DE 69525987	E	20020502	DE 625987	A	19950516	200237
			EP 95107430	A	19950516	

Priority Applications (No Type Date): JP 94203977 A 19940829; JP 94103766 A 19940518

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 683621	A2	E	28	H04R-001/46	
Designated States (Regional): DE FR GB					
JP 7312634	A		6	H04M-001/05	
CA 2149563	A			H04B-001/38	
JP 8070344	A		6	H04M-001/19	
EP 683621	A3			H04R-001/46	
US 5933506	A			H04R-025/00	
CA 2149563	C	E		H04B-001/38	
JP 3082825	B2		6	H04M-001/19	Previous Publ. patent JP 8070344
EP 683621	B1	E		H04R-001/46	Related to application EP 99123289
					Related to application EP 99123290
					Related to patent EP 984660
					Related to patent EP 984661

Designated States (Regional): DE FR GB

DE 69525987 E H04R-001/46 Based on patent EP 683621

Transmitter receiver with ear piece type acoustic transducer - ...

...filters signals from bone pick-up and sound microphone for respective components lower and higher than preset cut-off frequency

...Abstract (Basic): The transmitter receiver comprises an acoustic transducer with bone conducted sound pickup (14), and a directional microphone (15). A low pass filter permits the low frequency components of the bone pickup lower than a predetermined cutoff frequency. A high pass filter permits microphone sounds higher than cutoff frequency
...

...speech sending signal in accordance with use environments, such as tone quality and amount of sound, to send speech of best tone quality...

...Title Terms: TRANSDUCER ;

...International Patent Class (Main): H04R-001/46 ...

... H04R-025/00

...International Patent Class (Additional): H04R-001/00 ...

... H04R-003/00

25/3,K/5 (Item 5 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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010278659 **Image available**

WPI Acc No: 1995-179915/199524

XRPX Acc No: N95-141204

Loudspeaker protection circuitry protecting against strain due to coil displacement - has reference low-pass filter in feedback loop completed by nonlinear control circuit when drive exceeds safety threshold

Patent Assignee: KLIPPEL W (KLIP-I)

Inventor: KLIPPEL W

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4336608	A1	19950511	DE 4336608	A	19931027	199524 B
US 5577126	A	19961119	US 94311196	A	19940926	199701
DE 4336608.	C2	19970206	DE 4336608	A	19931027	199710

Priority Applications (No Type Date): DE 4336608 A 19931027

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 4336608	A1	7		H04R-003/08	
US 5577126	A	8		H04R-029/00	
DE 4336608	C2	8		H04R-003/08	

Loudspeaker protection circuitry protecting against strain due to coil displacement...

...Abstract (Basic): The electrodynamic **loudspeaker** (3) is driven by the voltage ($u_L(t)$) produced by a feedback circuit (9) including...

...the reference filter to its deriv. from a differentiator (17), produced by a first-order **high - pass filter** with cut-off frequency above 1 kHz...

...integrator (20). The prod. is added (12) to the input ($u(t)$) to produce the **loudspeaker** drive voltage...

...Abstract (Equivalent): A protection arrangement coupled to the electric terminals of a **transducer**, which converts an electric signal into an acoustic or a mechanic signal, for protecting said **transducer** against destruction at high signal amplitude while producing a minimum of signal distortions, comprising...

...a reference filter having a filter input connected to the electric input of said **transducer**, a filter output for providing a monitored signal indicating the load of said **transducer** ;

...

...provided with said multiplier output and a output connected to the electric input of said **transducer** for realizing a controlled feed-back system having the inverse transfer response of the reference

Title Terms: LOUDSPEAKER ;

International Patent Class (Main): H04R-003/08 ...

... H04R-029/00

25/3,K/6 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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010240742 **Image available**

WPI Acc No: 1995-141997/199519

XRXPX Acc No: N95-111657

Noise controlling device for acoustic equipment - eliminates undesired sound by correcting characteristics of FIR adaptive digital filter by algorithm controlling block

Patent Assignee: MITSUBISHI ELECTRIC CORP (MITQ)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7064567	A	19950310	JP 93207793	A	19930823	199519 B

Priority Applications (No Type Date): JP 93207793 A 19930823

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 7064567	A	12		G10K-011/178	

... eliminates undesired sound by correcting characteristics of FIR adaptive digital filter by algorithm controlling block

...Abstract (Basic): The noise controlling device consists of a **transducer** that converts the noise signal to an electrical signal. A second **transducer** detects the resultant of the destructive interference generated between this noise signal and the signal emanated from a source. Thus, the signals from the two **transducers** are converted to digital signal after filtering process. The second digital signal is fed to...

...ADVANTAGE - Eliminates use of analogue **high pass filter**.

Stabilises noise reduction process of device. Decreases delay generated for noise control operation...

...Title Terms: **SOUND** ;

...International Patent Class (Additional): **H04R-003/00**

25/3,K/7 (Item 7 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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009721988 **Image available**

WPI Acc No: 1994-001838/199401

XRXPX Acc No: N94-001432

Selective speech amplifier for telephone, or HF audio transducer for hearing-impaired user - has adjustable sound amplifier with high order high pass filter amplifying frequencies between 1500 and 4000 Hz

Patent Assignee: FRADKIN B (FRAD-I)

Inventor: FRADKIN B

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2691868	A1	19931203	FR 926611	A	19920601	199401 B

Priority Applications (No Type Date): FR 926611 A 19920601

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
FR 2691868	A1	8		H04R-025/04	

Selective speech amplifier for telephone, or HF audio transducer for hearing-impaired user...

...has adjustable sound amplifier with high order high pass filter amplifying frequencies between 1500 and 4000 Hz

...Abstract (Basic): The sound amplifier has a 5th order high pass filter, with a coupling RC module (R1-C1) coupled to the second cell counterbalanced by a...

...Title Terms: AUDIO ;

International Patent Class (Main): H04R-025/04

25/3,K/8 (Item 8 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

009703615 **Image available**

WPI Acc No: 1993-397168/199350

XRPX Acc No: N93-306981

Acoustic effects and speech analyser esp for hearing aids - has sets of digital filters, detectors and processors in parallel to modify each sound according to its specific characteristics.

Patent Assignee: SPIC FRANCE SA (SPIC-N)

Inventor: DUPRET J

Number of Countries: 013 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2690550	A1	19931029	FR 925212	A	19920428	199350 B
EP 577441	A2	19940105	EP 93401013	A	19930420	199402
EP 577441	A3	19940202	EP 93401013	A	19930420	199518

Priority Applications (No Type Date): FR 925212 A 19920428

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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FR 2690550	A1	20		G10L-009/02	
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EP 577441	A2	F	8	G10L-003/00	
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Designated States (Regional): AT BE CH DE ES GB GR IT LI LU NL SE

EP 577441	A3			G10L-009/02	
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... has sets of digital filters, detectors and processors in parallel to modify each sound according to its specific characteristics.

...Abstract (Basic): An electromechanical transducer or tape recorder (1) provides a signal to an amplifier (2) and an A to...

...The filters are high - pass, low-pass or pass-band or detect rising or falling frequency changes. The detectors measure amplitude, duration and peak frequency to determine the presence or otherwise of a sound. The processors multiply or divide the frequencies by a given value, amplify or suppress parts...

...Title Terms: SOUND ;

...International Patent Class (Additional): H04R-025/02

25/3,K/9 (Item 9 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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003832251

WPI Acc No: 1983-828499/198348

XRPX Acc No: N83-212706

Automatic time domain equalisation of audio signals - has input test signal detected by microphone to generate sampled sequence of signals, enabling discrete-time filter coefft. generation

Patent Assignee: TELEDYNE IND INC (TDCO)
Inventor: BERTKOVITZ R A; GENEREUX R P
Number of Countries: 013 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 94762	A	19831123				198348 B
JP 59032299	A	19840221	JP 8381839	A	19830512	198413
US 4458362	A	19840703	US 82378009	A	19820513	198429

Priority Applications (No Type Date): US 82378009 A 19820513

Patent Details:

Patent No	Kind	Land Pg	Main IPC	Filing Notes
EP 94762	A	E	75	

Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

Automatic time domain equalisation of audio signals...

...Abstract (Basic): The equaliser has two parallel channels: a high and a low frequency path, with high pass and low pass filters. A test signal generator (60) introduces a test signal into an input of a selected portion of a sound reproduction system. The test signal is picked up by a microphone via a loudspeaker (58) and converted to an optical signal and passed onto a photoelectric detector (82) which...

...and hold circuit generating a sequence of signals from the detected acoustic output of the sound reproduction system. From this sequence of signals, coefficients of discrete-time filter and tap locations...

...Abstract (Equivalent): The audio equaliser comprises a discrete-time filter connected in the sound reproduction system. An electrical test signal is introduced into a first point in the sound reproduction system, typically at the input of an electroacoustic transducer. A microphone, detects at a predetermined location the acoustic output produced by the transducer of the sound reproduction system in response to the test signal...

...A sampled sequence of signals generated from the detected acoustic output of the sound reproduction system. Coefficients are operated from the sequence of signals of the discrete-time filter...

...Title Terms: AUDIO ;

...International Patent Class (Additional): H04R-003/04 ...

... H04R-029/00

25/3,K/10 (Item 10 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

003800987

WPI Acc No: 1983-797228/198343

XRPX Acc No: N83-189156

Moving-coil electroacoustic loudspeaker transducer - extends and improves HF response using additional inner radiating dome having shorted turn supported on pole-piece

Patent Assignee: ELIELI B (ELIE-I)

Inventor: ELIELI B

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2118398	A	19831026				198343 B
GB 2118398	B	19860403				198614

Priority Applications (No Type Date): GB 8210841 A 19820414; GB 839762 A
19830411

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2118398	A		5		

Moving-coil electroacoustic loudspeaker transducer -

...Abstract (Basic): The moving coil electroacoustic **transducer** has a coil located in a magnetic gap and a shorted turn which is mechanically

...

...turn receives its energising electrical signals exclusively from the coil by electrical transformer action with **high - pass filter** characteristics, thus operating as a high frequency **transducer** without requiring an external electrical crossover network and removing the need for input leads connected...

...Abstract (Equivalent): The moving coil electroacoustic **transducer** has a coil located in a magnetic gap and a shorted turn which is mechanically...

...turn receives its energising electrical signals exclusively from the coil by electrical transformer action with **high - pass filter** characteristics, thus operating as a high frequency **transducer** without requiring an external electrical crossover network and removing the need for input leads connected...

...Title Terms: **LOUDSPEAKER** ;

International Patent Class (Additional): **H04R-009/00**

25/3,K/11 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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003744938

WPI Acc No: 1983-741139/198333

XRPX Acc No: N83-146134

Programmable hearing aid amplifier - includes multiple band preamplifier with controllable gain and compression characteristics and programmable switch arrays

Patent Assignee: ANDERSON J A (ANDE-I); A & L VENTURES I (ALVE-N)

Inventor: ANDERSON J A

Number of Countries: 001 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4396806	A	19830802				198333 B
US 4396806	B	19920721	US 80198677	A	19801020	199232
US 4396806	B2	19980602	US 80198677	A	19801020	199829

Priority Applications (No Type Date): US 80198677 A 19801020

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4396806	A		8		

US 4396806	B		2	H04R-025/00
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US 4396806	B2			H04R-025/00
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...Abstract (Basic): attack and delay characteristics of the selected channel. The bank is fed through a fixed **high - pass filter** from a microphone input, and a mixed output drives a power amplifier for an output **transducer** such as a hearing aid **speaker** .

International Patent Class (Main): H04R-025/00

25/3,K/12 (Item 12 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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003384393

WPI Acc No: 1982-P2429E/198243

Vibratory aid for presbycusis - has transducer consisting of set of vibrators for providing algal skin response using filtered channels of differing frequency responses

Patent Assignee: SCOTT INSTRUMENTS (SCOT-N)

Inventor: SCOTT B L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4354064	A	19821012				198243 B

Priority Applications (No Type Date): US 80122011 A 19800219

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4354064	A		5		

... has transducer consisting of set of vibrators for providing algal skin response using filtered channels of differing...

...Abstract (Basic): responsive tactile stimulator, Selected mid-frequency and high frequency components are extracted from an input **audio signal by a bandpass **filter** (18) and a **high - pass filter** (20). The outputs of these filters are transmitted through precision rectifiers (22,24) and provided...**

...driver (26) drives a set of vibrators (42-48) which are spatially arranged on a **transducer to cover a distinct area...**

...vibration. The use of the stimulator in accordance with the present invention together with an **audio amplifier hearing aid provides the user with the ability to distinguish various high frequency signal...**

...Title Terms: TRANSDUCER ;

International Patent Class (Additional): H04R-025/00

25/3,K/13 (Item 13 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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003274448

WPI Acc No: 1982-C2432E/198209

Multi-way loudspeaker system with transducer covering two bands - has crossover network giving four frequency bands with one loudspeaker acting as auxiliary bass and normal mid-range unit

Patent Assignee: ROLA CELESTION LTD (ROLA-N)

Inventor: ELLELL B

Number of Countries: 007 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 46388	A	19820224				198209 B
GB 2082418	A	19820303				198209

Priority Applications (No Type Date): GB 8026777 A 19800815

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 46388 A E 11

Designated States (Regional): BE DE FR IT NL SE

Multi-way loudspeaker system with transducer covering two bands...
...has crossover network giving four frequency bands with one loudspeaker
acting as auxiliary bass and normal mid-range unit

...Abstract (Basic): The loudspeaker system has three drive units (A,B,C) for low, mid-range, and treble frequencies, which are mounted, without separate enclosures, in the circuit. The loudspeakers are each fed with filters forming a crossover network, a main feature of the system being the splitting of the sound pressure level frequency response into four bands, instead of three. One of the loudspeakers (A) is arranged to operate in two bands, the stop band attenuation between them being...

...L1,L2) and a capacitor (C1) in the circuit for the low and mid range loudspeakers, and two capacitors (C2,C3) and an inductor (L3) associated with the treble unit (C). In the lowest frequency band, the dual-range loudspeaker is disabled by its series capacitor (C1) and functions, by air coupling, as an auxiliary...

...C1), until in the third range, the dual-range unit again becomes active. The associated high pass filter (C2,C3,L3) enables the treble unit in the top range.

...Title Terms: LOUDSPEAKER ;

International Patent Class (Additional): H04R-001/26 ...

... H04R-003/14

25/3,K/14 (Item 14 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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002301465

WPI Acc No: 1980-A7897C/198004

Loudspeaker system reproducing bass to treble frequencies - has membranes acceleration measured to provide feedback for loudspeaker and power amplifier

Patent Assignee: DANIERE J (DANI-I)

Inventor: DANIERE J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2422309	A	19791207				198004 B

Priority Applications (No Type Date): FR 7810700 A 19780404; FR 79483 A 19790104

Loudspeaker system reproducing bass to treble frequencies...

...has membranes acceleration measured to provide feedback for loudspeaker and power amplifier

...Abstract (Basic): The loudspeaker system has a broadband membrane

loudspeaker or electroacoustic **transducer** . The membrane is accelerated by a range of low frequencies covering the membrane's entire...

...The **loudspeaker** is connected to a power amplifier. The **loudspeaker** 's feedback path contains a device for measuring average acceleration over the entire surface of...

...membrane. The measuring device and a control-current measuring device are connected to a lowpass **filter** and to a highpass **filter** . The amplifier's feedback signal is formed by adding the acceleration and current information.

Title Terms: **LOUDSPEAKER** ;
International Patent Class (Additional): **H04R-013/00**

25/3,K/15 (Item 15 from file: 347)
DIALOG(R) File 347:JAPIO
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03817997 **Image available**
DRIVING DEVICE FOR ELECTRACOUSTIC **TRANSDUCER**

PUB. NO.: 04-183097 [JP 4183097 A]
PUBLISHED: June 30, 1992 (19920630)
INVENTOR(s): SUZUKI AKIHISA
APPLICANT(s): SHARP CORP [000504] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 02-311895 [JP 90311895]
FILED: November 16, 1990 (19901116)
JOURNAL: Section: E, Section No. 1279, Vol. 16, No. 497, Pg. 106, October 14, 1992 (19921014)

DRIVING DEVICE FOR ELECTRACOUSTIC **TRANSDUCER**

INTL CLASS: **H04R-003/04 ; H04R-001/02**

ABSTRACT

PURPOSE: To efficiently emphasize a low **sound** area by providing a low-pitched **sound** emphasizing circuit having a frequency characteristic corresponding to the admittance of a **loudspeaker** system on the output path of an **audio** signal to a **loudspeaker** unit...

...CONSTITUTION: The regenerative **audio** signal of a program source selected by a program source switcher 4 is passed through a volume adjuster 5, supplied successively through a high - pass **filter** 6 for cutting the noise of the low frequency area and a low-pitched **sound** emphasizing circuit 7 for correcting the **audio** signal to a power amplifier circuit 8, amplified by this power amplifier circuit 8 and supplied to a **loudspeaker** unit 11 of a **loudspeaker** system 9. This low-pitched **sound** emphasizing circuit 7 has the frequency characteristic corresponding to the admittance characteristic of the **loudspeaker** system 9. Thus, a low-pitched **sound** emphasizing effect can be efficiently obtained.

25/3,K/16 (Item 16 from file: 347)
DIALOG(R) File 347:JAPIO
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02307295 **Image available**

RATTLE SOUND DETECTOR OF ELECTROACOUSTIC TRANSDUCER

PUB. NO.: 62-224195 [JP 62224195 A]

PUBLISHED: October 02, 1987 (19871002)

INVENTOR(s): SUZUKI YOICHI

SONE TOSHIO

AOKI SHIGEO

APPLICANT(s): HOSIDEN ELECTRONICS CO LTD [327818] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 61-067707 [JP 8667707]

FILED: March 26, 1986 (19860326)

JOURNAL: Section: E, Section No. 592, Vol. 12, No. 89, Pg. 145, March 23, 1988 (19880323)

RATTLE SOUND DETECTOR OF ELECTROACOUSTIC TRANSDUCER

INTL CLASS: H04R-003/04

ABSTRACT

PURPOSE: To detect even an indistinct rattle sound by supplying a test signal to an electroacoustic **transducer**, and detecting time variation of power of the higher order harmonic component of an output of the **transducer**.

...

...a digital signal by an A/D converter 18 through an amplifier 16, and a **high - pass filter** 17. The microcomputer 11 divides an data into frames constituted of continuous 100 points, takes

?

File 344:Chinese Patents Abs Aug 1985-2003/Nov
(c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2003/Oct (Updated 040202)
(c) 2004 JPO & JAPIO
File 348:EUROPEAN PATENTS 1978-2004/Feb W03
(c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20040219, UT=20040212
(c) 2004 WIPO/Univentio
File 350:Derwent WPIX 1963-2004/UD, UM &UP=200413
(c) 2004 Thomson Derwent

S1 1184 AU=(SON, Y? OR SON Y?)
S2 12 S1 AND ACTUATOR?

2/5/1 (Item 1 from file: 347)
DIALOG(R) File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

07585280 **Image available**
MULTIFUNCTION ACTUATOR

PUB. NO.: 2003-079123 [JP 2003079123 A]
PUBLISHED: March 14, 2003 (20030314)
INVENTOR(s): SON YEON-HO
APPLICANT(s): SAMSUNG ELECTRO MECH CO LTD
APPL. NO.: 2001-354374 [JP 2001354374]
FILED: November 20, 2001 (20011120)
PRIORITY: 01 200150537 [KR 200150537], KR (Korea) Republic of, August 22, 2001 (20010822)
INTL CLASS: H02K-033/18; B06B-001/04; B06B-001/14; G10K-009/12; H04R-003/00; H04R-009/02; H04R-009/10

ABSTRACT

PROBLEM TO BE SOLVED: To provide a multifunction **actuator** which does not affect sounds while vibration is reduced when the sounds are generated and can cut off frequencies in a specific band in order to improve the sound quality.

SOLUTION: This multifunction **actuator** comprises a case 10 having an inner space; a vibration generating coil 9 placed in the case and generates vibration, a sound generating vibration plate whose outer end is fixed to the upper end of the case; a voice coil 2 which is fixed to the bottom of the vibration plate, generates sounds by a signal source, and includes a high-pass filter; a magnet magnetized vertically; an upper plate 3 attached to the magnet to constitute a magnetic circuit; a yoke 5 which constitutes the magnetic circuit with the magnet; a weight 6 which constitutes a vibration unit with the magnet, the upper plate, and the yoke, and a suspension spring which holds the vibration unit.

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2/5/2 (Item 2 from file: 347)
DIALOG(R) File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

07404837 **Image available**
DOUBLE MAGNET STRUCTURE OF VIBRATION SPEAKER

PUB. NO.: 2002-273343 [JP 2002273343 A]
PUBLISHED: September 24, 2002 (20020924)
INVENTOR(s): SON YEON-HO
APPLICANT(s): SAMSUNG ELECTRO MECH CO LTD
APPL. NO.: 2001-194733 [JP 2001194733]
FILED: June 27, 2001 (20010627)
PRIORITY: 01 200113779 [KR 200113779], KR (Korea) Republic of, March 16, 2001 (20010316)
INTL CLASS: B06B-001/04; B06B-001/14; H02K-033/18; H04R-001/00; H04R-009/02; H04R-009/06; H04R-009/10

ABSTRACT

PROBLEM TO BE SOLVED: To improve the sound pressure and vibration characteristics of a multifunctional **actuator** of a vibration speaker to be employed for a mobile communication terminal apparatus by forming a magnetic circuit for increasing the magnetic flux force under a single

input while composing a magnetic field same as an already existing magnetic field.

SOLUTION: The speaker comprises a case having a space in the inside, a diaphragm for sound generation whose outside end part is fixed in the upper end part of the case, a voice coil wound in a cylindrical form and fixed in the lower end of the diaphragm, a main magnet magnetized in the vertical direction, an upper plate attached to a magnet for forming a magnetic circuit, a yoke for forming the magnetic circuit in combination with the magnet, a weight composing a vibrating body in corporation with the upper plate and the yoke, a suspension spring for supporting the weight in the upper and the lower side, a coil installed in the lower end part of the case for generating vibration by utilizing some of magnetic flux generated as described, and a ring-like auxiliary magnet installed in the yoke.

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2/5/3 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01151197

Pickup actuator

Abtastkopfbetatiger

ACTIONNEUR de tête optique

PATENT ASSIGNEE:

SAMSUNG ELECTRONICS CO., LTD., (1093728), 416, Maetan-dong, Paldal-gu,
Suwon-City, Kyungki-do, (KR), (Applicant designated States: all)

INVENTOR:

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Son, Yong-ki, 200-41, Maetan-4-dong, Paldal-gu, Suwon City, Kyungki-do,
(KR)

Lee, Yong-hoon, 201-1505, Jukong Apartment, Wooman-dong, Paldal-gu, Suwon
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LEGAL REPRESENTATIVE:

Chugg, David John et al (78311), Appleyard Lees, 15 Clare Road, Halifax,
West Yorkshire HX1 2HY, (GB)

PATENT (CC, No, Kind, Date): EP 1003160 A2 000524 (Basic)
EP 1003160 A3 000628

APPLICATION (CC, No, Date): EP 99309142 991117;

PRIORITY (CC, No, Date): KR 4945498 981118

DESIGNATED STATES: DE; FR; GB; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G11B-007/09

ABSTRACT EP 1003160 A3

A pickup actuator capable of significantly reducing rolling of the area, including: a pickup base (10), a lens holder (40) having an objective lens (42) mounted thereon, and lens holder driving means for driving the lens holder (40) in directions for focusing and tracking on the pickup base (10). The lens holder driving means includes at least one magnet (30), a yoke (20, 20') for concentrating the direction of the magnetic flux of the magnet (30) and a driving coil (50) having a focusing coil (52) and a pair of tracking coils (54a, 54b) positioned between the magnet (30) and the yoke (20, 20'). The respective widths of the magnet (30) and the yoke (20, 20') are set at a rate of 1:0.8-1.2. Accordingly, the uniform magnetic flux area of the magnetic flux is widely distributed width-wise across the yoke (20, 20'). Further, the

magnet (30) is attached to one side (20) of one yoke (20, 20') while being slightly lowered thereon, so that the center of the magnetic (30) flux of the magnet is downwardly moved from its initial position to a distance corresponding to 4-12% of the height of the magnet, and the center line of the magnetic flux of the magnet and the center line of the focusing coil are aligned with each other, exactly. Further, the width of the magnet and the gap between the pair of tracking coils are set at a rate of 1:0.6-0.9. Accordingly, the portions of the pair of tracking coils intersecting the effective magnetic flux area are positioned in the area where the density of the magnetic flux is low, so that the force in the focusing direction by the tracking coils can be reduced.

ABSTRACT WORD COUNT: 284

NOTE:

Figure number on first page: 5

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 000524 A2 Published application without search report
Examination: 000524 A2 Date of request for examination: 19991206
Change: 000628 A2 Title of invention (French) changed: 20000511
Search Report: 000628 A3 Separate publication of the search report

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200021	1023
SPEC A	(English)	200021	4184
Total word count - document A			5207
Total word count - document B			0
Total word count - documents A + B			5207

2/5/4 (Item 2 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01126047

Optical recording and reproducing apparatus, tilt adjusting method appropriate therefor, and recording control method

Optisches Aufzeichnungs- und Wiedergabegerat, Verfahren zur Neigungseinstellung dafur, und Aufzeichnungssteuerungsverfahren

Appareil d'enregistrement et de reproduction optique, procede de reglage de l'inclinaison appropriee, et procede de commande d'enregistrement

PATENT ASSIGNEE:

SAMSUNG ELECTRONICS CO., LTD., (1093728), 416, Maetan-dong, Paldal-gu, Suwon-City, Kyungki-do, (KR), (Applicant designated States: all)

INVENTOR:

Son, Yong-ki, 200-41 Maetan 4-dong, Paldal-gu, Suwon-City, Kyungki-do, (KR)

Seong, Pyong-yong, 205-1101 Karak Apt., Karak-dong, Songpa-gu, Seoul, (KR)

Ryoo, Byung-ryul, 3-408 Hanhyo Apt., Kwonsun-dong, Kwonsun-gu, Suwon-city, Kyungki-do, (KR)

Kim, Seok-jung, 12-302 Dongnam Apt., 197 Maetan 2-dong, Paldal-gu, Suwon-city, Kyungki-do, (KR)

Seo, Joong-eon, 7-108 Deawoo Apt., 633 Naeson 2-dong, Uiwang-city, Kyungki-do, (KR)

Hwang, In-wook, 108-305 Kangnam Apt., Geumgoak-dong, Kwonsun-gu, Suwon-city, Kyungki-do, (KR)

Seo, Young-sun, 208-806 Mujigae Maeul LG Apt., Gumi-dong, Bundang-gu, Sungnam-city, Kyungki-do, (KR)

LEGAL REPRESENTATIVE:

Chugg, David John et al (78311), Appleyard Lees, 15 Clare Road, Halifax,

West Yorkshire HX1 2HY, (GB)
PATENT (CC, No, Kind, Date): EP 984439 A2 000308 (Basic)
EP 984439 A3 000809
APPLICATION (CC, No, Date): EP 99306184 990804;
PRIORITY (CC, No, Date): KR 9831871 980805
DESIGNATED STATES: DE; GB; NL
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G11B-007/095

ABSTRACT EP 984439 A2

An optical recording and reproducing apparatus for adjusting the tilt in accordance with the amount of jitter of a reproduction signal, a tilt adjusting method therefor, and a record control method are provided. The optical recording and reproducing apparatus includes an optical pickup (20) having an object lens (21), tilt adjusting means (28, 30, 40) for adjusting the tilt angle of the object lens (21), jitter detecting means (34) for detecting the amount of jitter of a reproducing signal generated by the optical pickup (20), and a tilt controlling unit (36) for minimizing the amount of jitter by feeding the amount of jitter detected by the jitter detecting means (34) back to the tilt adjusting means (28, 30, 40). According to the optical recording and reproducing apparatus of the present invention, there is no need for a space in which a displacement sensor detecting the tilt angle of the optical pickup faces the disk.

ABSTRACT WORD COUNT: 155

NOTE:

Figure number on first page: 2

LEGAL STATUS (Type, Pub Date, Kind, Text):

Search Report: 000809 A3 Separate publication of the search report
Application: 20000308 A2 Published application without search report
Examination: 20000308 A2 Date of request for examination: 19990901

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200010	1095
SPEC A	(English)	200010	3773
Total word count - document A			4868
Total word count - document B			0
Total word count - documents A + B			4868

2/5/5 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX
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015615746 **Image available**
WPI Acc No: 2003-677903/200364
XRPX Acc No: N03-541172

Multi-function actuator for generating sound and vibration, has voice coil with high-pass notch filter constituted by inductor (L) connected in parallel and capacitor (C) in series
Patent Assignee: SAMSUNG ELECTRO MECHANICS CO LTD (SMSU); SANSEI DENKI KK (SANS-N)

Inventor: SON Y H ; YEON H S

Number of Countries: 005 Number of Patents: 005

MyCase.

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030044031	A1	20030306	US 20015264	A	20011112	200364 B
KR 2003016796	A	20030303	KR 200150537	A	20010822	200364
DE 10156816	A1	20030508	DE 1056816	A	20011120	200364

FI 200102146 A 20030223 FI 20012146 A 20011106 200364
JP 2003079123 A 20030314 JP 2001354374 A 20011120 200364

Priority Applications (No Type Date): KR 200150537 A 20010822

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030044031	A1	10	H04R-025/00	
KR 2003016796	A		H04R-009/00	
DE 10156816	A1		G08B-007/06	
FI 200102146	A		H04R-000/00	
JP 2003079123	A	7	H02K-033/18	

Abstract (Basic): US 20030044031 A1

NOVELTY - The actuator has a case with an internal space, a vibrating coil (9) installed in the case, a sound generating diaphragm, a voice coil (2) fixed under the diaphragm with a high pass notch filter, an upper plate attached to a magnet, a yoke, weight and springs. The high-pass notch filter is constituted by inductors (L) connected in parallel and capacitor (C) in series.

USE - Used for generating sound and vibration.

ADVANTAGE - The vibrations in the sound generation unit are reduced greatly. The frequencies are interrupted in specific ranges when the signals are applied to voice and vibration coils thereby improving sound quality.

DESCRIPTION OF DRAWING(S) - The drawing shows a multifunction actuator .

Voice coil (2)
Vibration coil (9)
Inductor (L)
Capacitor. (C)
pp; 10 DwgNo 3/9

Title Terms: MULTI; FUNCTION; ACTUATE; GENERATE; SOUND; VIBRATION; VOICE; COIL; HIGH; PASS; NOTCH; FILTER; CONSTITUTE; INDUCTOR; CONNECT; PARALLEL; CAPACITOR; SERIES

Derwent Class: P43; P86; U25; V06

International Patent Class (Main): G08B-007/06; H02K-033/18; H04R-000/00; H04R-009/00; H04R-025/00

International Patent Class (Additional): B06B-001/04; B06B-001/14; G10K-009/12; H04R-003/00; H04R-009/02; H04R-009/06; H04R-009/10

File Segment: EPI; EngPI

2/5/6 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015095366 **Image available**

WPI Acc No: 2003-155884/200315

XRPX Acc No: N03-123011

Multifunction actuator for vibration speaker in cellular phone, includes ring-shaped auxiliary magnet installed in yoke

ABN'D

Patent Assignee: SAMSUNG ELECTRO MECHANICS CO LTD (SMSU); SANSEI DENKI KK (SANS-N)

Inventor: SON Y H

Number of Countries: 005 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020131612	A1	20020919	US 2001893172	A	20010627	200315 B
KR 2002073876	A	20020928	KR 200113779	A	20010316	200315
DE 10130909	A1	20021002	DE 1030909	A	20010629	200315
FI 200101412	A	20020917	FI 20011412	A	20010629	200315

JP 2002273343 A 20020924 JP 2001194733 A 20010627 200315

Priority Applications (No Type Date): KR 200113779 A 20010316

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020131612	A1		8	H04R-025/00	
KR 2002073876	A			H04R-009/00	
DE 10130909	A1			H04R-009/04	
FI 200101412	A			H04R-000/00	
JP 2002273343	A		6	B06B-001/04	

Abstract (Basic): US 20020131612 A1

NOVELTY - A ring-shaped auxiliary magnet (31) is installed in the yoke (25). The magnet (31) has pole directions oriented differently from those of main magnet (24) so that the directions of the magnetic lines of force is not changed.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a micro speaker.

USE - For vibration speaker in cellular phone, pagers.

ADVANTAGE - As the magnetic flux flowing through the magnetic circuit is enhanced, the audio and vibration output are enhanced even under same pressure.

DESCRIPTION OF DRAWING(S) - The figure shows a sectional view of a multifunction actuator .

Main magnet (24)

Yoke (25)

Auxiliary magnet (31)

pp; 8 DwgNo 4/8

Title Terms: MULTIFUNCTION; ACTUATE; VIBRATION; SPEAKER; CELLULAR;

TELEPHONE; RING; SHAPE; AUXILIARY; MAGNET; INSTALLATION; YOKE

Derwent Class: P43; W01; W04; W05

International Patent Class (Main): B06B-001/04; H04R-000/00; H04R-009/00; H04R-009/04; H04R-025/00

International Patent Class (Additional): B06B-001/14; H02K-033/18; H04R-001/00; H04R-009/02; H04R-009/06; H04R-009/10

File Segment: EPI; EngPI

2/5/7 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015094309 **Image available**

WPI Acc No: 2003-154827/200315

Multi-function actuator

Patent Assignee: SAMSUNG ELECTRO MECHANICS CO LTD (SMSU)

Inventor: SON Y H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2002077682	A	20021014	KR 200117415	A	20010402	200315 B

Priority Applications (No Type Date): KR 200117415 A 20010402

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2002077682	A		1	H04R-007/00	

Abstract (Basic): KR 2002077682 A

NOVELTY - A multi-function actuator is provided to drastically improve a vibration characteristics by driving both of voice coil and a vibration generation coil during the generation of the vibration in

comparison with a conventional **actuator** vibrated by only one coil.

DETAILED DESCRIPTION - A multi-function **actuator** includes a case(110) provided with a space therein, a vibration plate(101) fixed by coupling an external end of the vibration plate(101) to the upper portion of the case(110) for generating a voice, a voice coil(102) fixed by winding in a bottom surface of the vibration plate(101) in the form of cylinder, a magnet(104) magnetized in up and down direction, an upper plate(103) for forming a magnetic circuit by attaching to the magnet(104), a yoke(105) for forming the magnetic circuit together with the magnet(104), a weight(06) for forming a vibration body together with the magnet(104), the upper plate(103) and the yoke(105), a suspension spring(108) for supporting the vibration body and a coil(109) for generating a vibration by installing the lower surface of the case(110) and connected to the signal source and the voice coil(102) in parallel.

pp; 1 DwgNo 1/10

Title Terms: MULTI; FUNCTION; ACTUATE

Derwent Class: V06

International Patent Class (Main): H04R-007/00

File Segment: EPI

2/5/8 (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014951506 **Image available**

WPI Acc No: 2003-012019/200301

Resonance frequency detection system for multi-functional actuator
Patent Assignee: SAMSUNG ELECTRO MECHANICS CO LTD (SMSU); SAMSUNG

ELECTRICS CO LTD (SMSU)

Inventor: SON Y H ; SOHN Y H

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2002050338	A	20020627	KR 200079463	A	20001221	200301 B
KR 385072	B	20030522	KR 200079463	A	20001221	200360

Priority Applications (No Type Date): KR 200079463 A 20001221

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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KR 2002050338 A 1 G01R-023/07

KR 385072 B G01R-023/07 Previous Publ. patent KR 2002050338

Abstract (Basic): KR 2002050338 A

NOVELTY - A resonance frequency detection system is provided to detect resonance point in a rapid and simple way by checking current value, without using a method of measuring acceleration value and checking maximum value.

DETAILED DESCRIPTION - A resonance frequency detector comprises a multi-functional **actuator** (3A) which vibrates in accordance with the frequency of power being supplied; a power supply unit for supplying an alternating current(2) having a frequency which sweeps in a range of 100Hz to 200Hz, to the multi-functional **actuator** ; and a current meter(5) which receives, as a feedback, the current being applied to a vibration coil of the multi-functional **actuator** , checks the current which is feedback, and confirms the frequency where the current of minimum value flows, as a resonance point.

pp; 1 DwgNo 1/10

Title Terms: RESONANCE; FREQUENCY; DETECT; SYSTEM; MULTI; FUNCTION; ACTUATE

Derwent Class: S01

International Patent Class (Main): G01R-023/07
File Segment: EPI

2/5/9 (Item 5 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014561166 **Image available**
WPI Acc No: 2002-381869/200241

XRPX Acc No: N02-298862

Actuator arm assembly for hard disk drive, has suspension arm with gram load which is varied by deflection, using actuator

Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU); HAN Y (HANY-I); HWANG T (HWAN-I); KANG S (KANG-I); OH D (OHDD-I); SON Y (SONY-I)

Inventor: HAN Y S; HWANG T Y; KANG S U; OH D H; SON Y ; HAN Y; HWANG T; KANG S; OH D

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020034033	A1	20020321	US 2000233600	A	20000918	200241 B
			US 2001847735	A	20010501	
KR 2002022001	A	20020323	KR 200156790	A	20010914	200264

Priority Applications (No Type Date): US 2000233600 P 20000918; US 2001847735 A 20010501

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020034033	A1	10		G11B-021/02	Provisional application US 2000233600

KR 2002022001 A G11B-021/12

Abstract (Basic): US 20020034033 A1

NOVELTY - A suspension arm (22) having a gram load, is coupled to an actuator arm (24). A head (20) is coupled to the suspension arm. An actuator varies the gram load of the suspension arm, by deflection. The actuator is made of shape memory alloy or piezoelectric material and the gram force is varied in the range of 2-3 to 7-8 g.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) Hard disk drive;
- (b) Gram load varying method

USE - For use in hard disk drive (claimed).

ADVANTAGE - Varies gram load and minimizes the likelihood of head slapping event, when the disk drive is not operating.

DESCRIPTION OF DRAWING(S) - The figure shows the top view of hard disk drive.

Head (20)

Suspension arm (22)

Actuator arm (24)

pp; 10 DwgNo 1/6

Title Terms: ACTUATE; ARM; ASSEMBLE; HARD; DISC; DRIVE; SUSPENSION; ARM; GRAM; LOAD; VARY; DEFLECT; ACTUATE

Derwent Class: T03; V06

International Patent Class (Main): G11B-021/02; G11B-021/12

International Patent Class (Additional): G11B-005/48

File Segment: EPI

2/5/10 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013281553 **Image available**

WPI Acc No: 2000-453488/200040

Related WPI Acc No: 2000-453482

XRPX Acc No: N00-337771

Actuator relationships for optical pickup has defined ratios between permanent magnet and cores and gap spacing

Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)

Inventor: KIM S; LEE Y; RYOO B; SON Y ; KIM S J; LEE Y H; SOHN Y G; YOO B
Y

Number of Countries: 029 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1003160	A2	20000524	EP 99309142	A	19991117	200040 B
JP 2000187863	A	20000704	JP 99327036	A	19991117	200044
CN 1257279	A	20000621	CN 99126324	A	19991118	200049
KR 2000032848	A	20000615	KR 9849454	A	19981118	200110
KR 344586	B	20021031	KR 9849454	A	19981118	200328
US 6584047	B1	20030624	US 99442460	A	19991118	200343

Priority Applications (No Type Date): KR 9849454 A 19981118

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1003160 A2 E 13 G11B-007/09

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

JP 2000187863 A 7

KR 2000032848 A G11B-021/00

KR 344586 B G11B-021/00 Previous Publ. patent KR 2000032848

US 6584047 B1 G11B-007/00

Abstract (Basic): EP 1003160 A2

NOVELTY - The optical **actuator** is formed on a base plate (10). The lens (42) is held in a holder (40) that is connected to coils (50) for focus and tracking control movements. The coil is magnetically coupled to the poles (20) of a yoke. A permanent magnet (30) provides the magnetic force to the yoke. The permanent magnet is offset 4-12% lower on the poles. The magnet is also approximately the same width as the poles and its width is in a 1:0.75 ratio to the gap size.

USE - Stable optical pickup construction

ADVANTAGE - By achieving these physical relationships the amount of roll of the lens is minimized

DESCRIPTION OF DRAWING(S) - Optical pickup

Base (10)

Magnetic yoke (20)

Permanent magnet (30)

Lens support (40)

pp; 13 DwgNo 5,6/9

Title Terms: ACTUATE; RELATED; OPTICAL; DEFINE; RATIO; PERMANENT; MAGNET;

CORE; GAP; SPACE

Derwent Class: T03; V06; W04

International Patent Class (Main): G11B-007/00; G11B-007/09; G11B-021/00

File Segment: EPI

2/5/11 (Item 7 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013069985 **Image available**

WPI Acc No: 2000-241857/200021

XRPX Acc No: N00-181965

Optical pick-up actuator for optical disk, has magnetic driving unit with tracking and focus coils wound on side and perimeter of bobbin and covers coils to reduce space between tracking coil and permanent magnet
Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU); SAMSUNG ELECTRONICS CO (SMSU)

Inventor: KIM S J; LEE Y H; SOHN Y G; YOO B Y; KIM S; LEE Y; RYOO B; SON Y

Number of Countries: 005 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000057600	A	20000225	JP 99110156	A	19990416	200021 B
CN 1245328	A	20000223	CN 99104974	A	19990409	200028
KR 2000013808	A	20000306	KR 9832889	A	19980813	200104
US 20010040858	A1	20011115	US 99301464	A	19990429	200172
TW 449738	A	20010811	TW 99109230	A	19990603	200237
US 6507554	B2	20030114	US 99301464	A	19990429	200313
KR 363154	B	20030319	KR 9832889	A	19980813	200353

Priority Applications (No Type Date): KR 9832889 A 19980813

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000057600	A		5	G11B-007/09	
CN 1245328	A			G11B-007/08	
KR 2000013808	A			G11B-021/02	
US 20010040858	A1			G11B-007/00	
TW 449738	A			G11B-020/00	
US 6507554	B2			G11B-017/00	
KR 363154	B			G11B-021/02	Previous Publ. patent KR 2000013808

Abstract (Basic): JP 2000057600 A

NOVELTY - A magnetic driving unit has a pair of tracking coils (7a) which are wound at each short side of a bobbin (4). A focus coil (6) wound around perimeter of the bobbin wraps the tracking coil. An objective lens (3) is fixed to the bobbin. The bobbin is connected to a holder (2) through a suspension (5). Permanent magnets (8a,8b) provided in driving unit moves bobbin along track direction or focus direction. DETAILED DESCRIPTION - The winding of the focus coil narrows down space with the permanent magnet and a large power is generated. An INDEPENDENT CLAIM is also included for the movable coil winding procedure using optical pick-up actuator .

USE - For optical disk.

ADVANTAGE - Reduces size with large power generation due to narrowing down of space between the focus coil and the permanent magnet. Prevents rolling of actuator due to uniform flux distribution. DESCRIPTION OF DRAWING(S) - The figure shows perspective view of the optical pick-up actuator for optical disk. (2) Holder; (3) Objective lens; (4) Bobbin; (5) Suspension; (6) Focus coil; (7a) Tracking coils; (8a,8b) Permanent magnets.

Dwg.1/8

JP 2000057600 A

NOVELTY - A magnetic driving unit has a pair of tracking coils (7a) which are wound at each short side of a bobbin (4). A focus coil (6) wound around perimeter of the bobbin wraps the tracking coil. An objective lens (3) is fixed to the bobbin. The bobbin is connected to a holder (2) through a suspension (5). Permanent magnets (8a,8b) provided in driving unit moves bobbin along track direction or focus direction. DETAILED DESCRIPTION - The winding of the focus coil narrows down space with the permanent magnet and a large power is generated. An

INDEPENDENT CLAIM is also included for the movable coil winding procedure using optical pick-up **actuator**.

USE - For optical disk.

ADVANTAGE - Reduces size with large power generation due to narrowing down of space between the focus coil and the permanent magnet. Prevents rolling of **actuator** due to uniform flux distribution. DESCRIPTION OF DRAWING(S) - The figure shows perspective view of the optical pick-up **actuator** for optical disk. (2) Holder; (3) Objective lens; (4) Bobbin; (5) Suspension; (6) Focus coil; (7a) Tracking coils; (8a,8b) Permanent magnets.

Dwg.1/8

Title Terms: OPTICAL; PICK; UP; ACTUATE; OPTICAL; DISC; MAGNETIC; DRIVE; UNIT; TRACK; FOCUS; COIL; WOUND; SIDE; PERIMETER; BOBBIN; COVER; COIL; REDUCE; SPACE; TRACK; COIL; PERMANENT; MAGNET

Derwent Class: T03; W04

International Patent Class (Main): G11B-007/00; G11B-007/08; G11B-007/09; G11B-017/00; G11B-020/00; G11B-021/02

International Patent Class (Additional): G11B-021/16

File Segment: EPI

2/5/12 (Item 8 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012227165 **Image available**

WPI Acc No: 1999-033271/199903

Method for winding coils of an actuator apparatus NoAbstract

Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)

Inventor: LEE J; LEE Y; SON Y; LEE J W; LEE Y H; SOHN Y G

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 98004438	A	19980330	KR 9621067	A	19960612	199903 B
KR 180849	B1	19990415	KR 9621067	A	19960612	200047

Priority Applications (No Type Date): KR 9621067 A 19960612

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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KR 98004438	A			G11B-007/08	
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KR 180849	B1			G11B-007/08	
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Title Terms: METHOD; WIND; COIL; ACTUATE; APPARATUS; NOABSTRACT

Derwent Class: T03; W04

International Patent Class (Main): G11B-007/08

File Segment: EPI

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